

GenCore version 5.1.8  
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OM protein - protein search, using sw model

Run on: May 13, 2006, 08:14:12 ; Search time 46 Seconds  
(without alignments)

25.162 Million cell updates/sec

Title: US-10-769-514-17

Perfect score: 74

Sequence: 1 MGYGMSKINLHN 14

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

Issued Patents AA:\*

1: /cgn2\_6/ptodata/1/iaa/5 COMB.pep:\*

2: /cgn2\_6/ptodata/1/iaa/6 COMB.pep:\*

3: /cgn2\_6/ptodata/1/iaa/H\_COMB.pep:\*

4: /cgn2\_6/ptodata/1/iaa/FCRUS\_COMB.pep:\*

5: /cgn2\_6/ptodata/1/iaa/RE\_COMB.pep:\*

6: /cgn2\_6/ptodata/1/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	74	100.0	682	2	US-08-613-009A-10
2	74	100.0	682	2	US-08-778-570B-12
3	74	100.0	682	2	US-09-059-584-12
4	74	100.0	702	1	US-08-867-941-25
5	74	100.0	702	2	US-08-613-009A-9
6	74	100.0	702	2	US-09-074-658-25
7	74	100.0	702	2	US-08-778-570B-11
8	74	100.0	702	2	US-09-059-584-11
9	65	87.8	706	2	US-09-059-584-46
10	63	85.1	713	2	US-09-059-584-49
11	42	56.8	696	2	US-09-907-794A-91
12	42	56.8	696	2	US-09-905-125A-91
13	42	56.8	696	2	US-09-902-775A-91
14	42	56.8	696	2	US-09-906-700-91
15	42	56.8	696	2	US-09-903-603A-91
16	42	56.8	696	2	US-09-904-920A-91
17	42	56.8	696	2	US-09-909-064-91
18	42	56.8	696	2	US-09-905-381A-91
19	42	56.8	696	2	US-09-906-618-91
20	42	56.8	696	2	US-09-906-646-91
21	42	56.8	696	2	US-09-904-462-91
22	42	56.8	696	2	US-09-902-736A-91
23	42	56.8	696	2	US-09-906-722A-91
24	40	54.1	81	2	US-09-270-767-39421
25	40	54.1	81	2	US-09-270-767-54638
26	40	54.1	622	2	US-09-902-540-11017
27	39	52.7	315	2	US-09-134-000C-3657

28	38	51.4	130	2	US-09-328-352-7870	Sequence 7870, Ap
29	38	51.4	282	2	US-09-561-077C-32	Sequence 32, Appl
30	38	51.4	282	2	US-09-221-014-32	Sequence 32, Appl
31	37.5	50.7	596	2	US-09-171-337A-6	Sequence 6, Appli
32	37.5	50.7	596	2	US-09-631-022-6	Sequence 6, Appli
33	37	50.0	42	2	US-09-830-807-7	Sequence 7, Appli
34	37	50.0	167	2	US-09-270-767-37334	Sequence 7334, A
35	37	50.0	167	2	US-09-270-767-52551	Sequence 52551, A
36	37	50.0	217	2	US-09-949-016-6509	Sequence 6509, Ap
37	37	50.0	228	2	US-09-949-016-9719	Sequence 9719, Ap
38	37	50.0	318	2	US-09-134-000C-6538	Sequence 6538, Ap
39	36.5	49.3	351	2	US-09-949-016-6354	Sequence 6354, Ap
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41	36	48.6	190	2	US-09-489-039A-8946	Sequence 8946, Ap
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44	36	48.6	305	2	US-09-389-341-22	Sequence 22, Appl
45	36	48.6	310	2	US-09-107-532A-6246	Sequence 6246, Ap
46	36	48.6	396	2	US-09-489-039A-12215	Sequence 12215, A
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49	36	48.6	1115	2	US-10-335-711-2	Sequence 2, Appli
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59	35	47.3	151	2	US-09-270-767-48435	Sequence 48435, A
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63	35	47.3	179	2	US-09-270-767-48293	Sequence 48293, A
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73	35	47.3	408	2	US-09-270-767-32356	Sequence 32356, A
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77	35	47.3	717	2	US-09-949-016-5999	Sequence 5999, Ap
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80	35	47.3	1498	1	US-08-404-531B-28	Sequence 28, Appl
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92	35	47.3	1581	1	US-08-404-531B-6	Sequence 6, Appli
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100	35	47.3	1582	1	US-08-404-531B-9	Sequence 9, Appli

ALIGNMENTS

RESULT 1  
US-08-613-009A-10  
; Sequence 10, Application US/08613009A  
; Patent No. 6090576  
; GENERAL INFORMATION:  
; APPLICANT: Myers, Lisa E  
; APPLICANT: Schryvers, Anthony B  
; APPLICANT: Harkness, Robin E  
; APPLICANT: Loosmore, Sheena M.  
; APPLICANT: Du, Run-Pan  
; APPLICANT: Yang, Yan-Ping  
; APPLICANT: Klein, Michel H  
; TITLE OF INVENTION: Transferrin Receptor Genes of Moraxella  
; NUMBER OF SEQUENCES: 31  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Sim & McBurney  
; STREET: 6th Floor, 330 University Avenue  
; CITY: Toronto  
; STATE: Ontario  
; COUNTRY: Canada  
; ZIP: MSG 1R7  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/613,009A  
; FILING DATE: 08-MAR-1996  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Stewart, Michael I  
; REGISTRATION NUMBER: 24973  
; REFERENCE/DOCKET NUMBER: 1038-542  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (416) 595-1155  
; TELEFAX: (416) 595-1163  
; INFORMATION FOR SEQ ID NO: 10:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 682 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; US-08-613-009A-10  
  
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Best Local Similarity 100.0%; Pred. No. 1.9e-05;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
Qy 1 MGYGMALSKINLHN 14  
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Db 80 MGYGMALSKINLHN 93  
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RESULT 2  
US-08-778-570B-12  
; Sequence 12, Application US/08778570B  
; Patent No. 6437096  
; GENERAL INFORMATION:  
; APPLICANT: Myers, Lisa E  
; APPLICANT: Schryvers, Anthony B  
; APPLICANT: Harkness, Robin E  
; APPLICANT: Loosmore, Sheena M.  
; APPLICANT: Du, Run-Pan  
; APPLICANT: Yang, Yan-Ping  
; APPLICANT: Klein, Michel H  
; TITLE OF INVENTION: Transferrin Receptor Genes of Moraxella  
; NUMBER OF SEQUENCES: 43

; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Sim & McBurney  
; STREET: 6th Floor, 330 University Avenue  
; CITY: Toronto  
; STATE: Ontario  
; COUNTRY: Canada  
; ZIP: MSG 1R7  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/778,570B  
; FILING DATE: 03-JAN-1997  
; CLASSIFICATION: 536  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Stewart, Michael I  
; REGISTRATION NUMBER: 24973  
; REFERENCE/DOCKET NUMBER: 1038-664  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (416) 595-1155  
; TELEFAX: (416) 595-1163  
; INFORMATION FOR SEQ ID NO: 12:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 682 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; US-08-778-570B-12  
  
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Best Local Similarity 100.0%; Pred. No. 1.9e-05;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
Qy 1 MGYGMALSKINLHN 14  
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Db 80 MGYGMALSKINLHN 93  
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RESULT 3  
US-09-059-584-12  
; Sequence 12, Application US/09059584  
; Patent No. 6440701  
; GENERAL INFORMATION:  
; APPLICANT: Myers, Lisa E  
; APPLICANT: Schryvers, Anthony B  
; APPLICANT: Harkness, Robin E  
; APPLICANT: Loosmore, Sheena M.  
; APPLICANT: Du, Run-Pan  
; APPLICANT: Yang, Yan-Ping  
; APPLICANT: Klein, Michel H  
; TITLE OF INVENTION: Transferrin Receptor Genes of Moraxella  
; NUMBER OF SEQUENCES: 60  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Sim & McBurney  
; STREET: 6th Floor, 330 University Avenue  
; CITY: Toronto  
; STATE: Ontario  
; COUNTRY: Canada  
; ZIP: MSG 1R7  
; COMPUTER READABLE FORM:  
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; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
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; FILING DATE: 14-APR-1998  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/778,570  
; FILING DATE: 03-JAN-1997

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; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Stewart, Michael I
; REGISTRATION NUMBER: 24973
; REFERENCE/DOCKET NUMBER: 1038-794
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (416) 595-1155
; TELEFAX: (416) 595-1163
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 682 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
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US-09-059-584-12
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Best Local Similarity 100.0%; Pred. No. 1.9e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 80 MGYGMALSKINLHN 93
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RESULT 4
US-08-867-941-25
; Sequence 25, Application US/08867941
; Patent No. 5977337
; GENERAL INFORMATION:
; APPLICANT: Loosmore, Sheena M
; APPLICANT: Du, Run-Pan
; APPLICANT: Wang, Quijun
; APPLICANT: Yang, Yan-Ping
; APPLICANT: Klein, Michel H
; TITLE OF INVENTION: LACTOFERRIN RECEPTOR GENES OF MORAXELLA
; NUMBER OF SEQUENCES: 67
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sim & McBurney
; STREET: 6th Floor, 330 University Avenue
; CITY: Toronto
; STATE: Ontario
; COUNTRY: Canada
; ZIP: M5G 1R7
;
COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/867,941
; FILING DATE: 03-JUN-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Stewart, Michael I
; REGISTRATION NUMBER: 24,973
; REFERENCE/DOCKET NUMBER: 1038-681 MIS:jb
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (416) 595-1155
; TELEFAX: (416) 595-1163
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 702 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
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US-08-867-941-25
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Best Local Similarity 100.0%; Pred. No. 2e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Ov 1 MGYGMALSKINLHN 14
;
CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Stewart, Michael I
; REGISTRATION NUMBER: 24973
; REFERENCE/DOCKET NUMBER: 1038-794
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (416) 595-1155
; TELEFAX: (416) 595-1163
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 682 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
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US-09-059-584-12
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Query Match 100.0%; Score 74; DB 2; Length 682;
Best Local Similarity 100.0%; Pred. No. 1.9e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGYGMALSKINLHN 14
Db 80 MGYGMALSKINLHN 93
;
RESULT 4
US-08-867-941-25
; Sequence 25, Application US/08867941
; Patent No. 5977337
; GENERAL INFORMATION:
; APPLICANT: Loosmore, Sheena M
; APPLICANT: Du, Run-Pan
; APPLICANT: Wang, Quijun
; APPLICANT: Yang, Yan-Ping
; APPLICANT: Klein, Michel H
; TITLE OF INVENTION: LACTOFERRIN RECEPTOR GENES OF MORAXELLA
; NUMBER OF SEQUENCES: 67
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sim & McBurney
; STREET: 6th Floor, 330 University Avenue
; CITY: Toronto
; STATE: Ontario
; COUNTRY: Canada
; ZIP: M5G 1R7
;
COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/867,941
; FILING DATE: 03-JUN-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Stewart, Michael I
; REGISTRATION NUMBER: 24,973
; REFERENCE/DOCKET NUMBER: 1038-681 MIS:jb
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (416) 595-1155
; TELEFAX: (416) 595-1163
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 702 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
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US-08-867-941-25
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Query Match 100.0%; Score 74; DB 1; Length 702;
Best Local Similarity 100.0%; Pred. No. 2e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Ov 1 MGYGMALSKINLHN 14
;
CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Stewart, Michael I
; REGISTRATION NUMBER: 24973
; REFERENCE/DOCKET NUMBER: 1038-794
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (416) 595-1155
; TELEFAX: (416) 595-1163
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 682 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
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US-09-059-584-12
;
Query Match 100.0%; Score 74; DB 2; Length 682;
Best Local Similarity 100.0%; Pred. No. 1.9e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGYGMALSKINLHN 14
Db 80 MGYGMALSKINLHN 93
;
RESULT 4
US-08-867-941-25
; Sequence 25, Application US/08867941
; Patent No. 5977337
; GENERAL INFORMATION:
; APPLICANT: Loosmore, Sheena M
; APPLICANT: Du, Run-Pan
; APPLICANT: Wang, Quijun
; APPLICANT: Yang, Yan-Ping
; APPLICANT: Klein, Michel H
; TITLE OF INVENTION: LACTOFERRIN RECEPTOR GENES OF MORAXELLA
; NUMBER OF SEQUENCES: 67
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sim & McBurney
; STREET: 6th Floor, 330 University Avenue
; CITY: Toronto
; STATE: Ontario
; COUNTRY: Canada
; ZIP: M5G 1R7
;
COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/867,941
; FILING DATE: 03-JUN-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Stewart, Michael I
; REGISTRATION NUMBER: 24,973
; REFERENCE/DOCKET NUMBER: 1038-681 MIS:jb
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (416) 595-1155
; TELEFAX: (416) 595-1163
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 702 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
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US-08-867-941-25
;
Query Match 100.0%; Score 74; DB 1; Length 702;
Best Local Similarity 100.0%; Pred. No. 2e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Ov 1 MGYGMALSKINLHN 14
;
CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Stewart, Michael I
; REGISTRATION NUMBER: 24973
; REFERENCE/DOCKET NUMBER: 1038-794
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (416) 595-1155
; TELEFAX: (416) 595-1163
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 682 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
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US-09-059-584-12
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Query Match 100.0%; Score 74; DB 2; Length 682;
Best Local Similarity 100.0%; Pred. No. 1.9e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGYGMALSKINLHN 14
Db 80 MGYGMALSKINLHN 93
;
RESULT 4
US-08-867-941-25
; Sequence 25, Application US/08867941
; Patent No. 5977337
; GENERAL INFORMATION:
; APPLICANT: Loosmore, Sheena M
; APPLICANT: Du, Run-Pan
; APPLICANT: Wang, Quijun
; APPLICANT: Yang, Yan-Ping
; APPLICANT: Klein, Michel H
; TITLE OF INVENTION: LACTOFERRIN RECEPTOR GENES OF MORAXELLA
; NUMBER OF SEQUENCES: 67
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sim & McBurney
; STREET: 6th Floor, 330 University Avenue
; CITY: Toronto
; STATE: Ontario
; COUNTRY: Canada
; ZIP: M5G 1R7
;
COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/867,941
; FILING DATE: 03-JUN-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Stewart, Michael I
; REGISTRATION NUMBER: 24,973
; REFERENCE/DOCKET NUMBER: 1038-681 MIS:jb
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (416) 595-1155
; TELEFAX: (416) 595-1163
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 702 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-08-867-941-25
;
Query Match 100.0%; Score 74; DB 1; Length 702;
Best Local Similarity 100.0%; Pred. No. 2e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Ov 1 MGYGMALSKINLHN 14
;
CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Stewart, Michael I
; REGISTRATION NUMBER: 24973
; REFERENCE/DOCKET NUMBER: 1038-794
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (416) 595-1155
; TELEFAX: (416) 595-1163
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 682 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-09-059-584-12
;
Query Match 100.0%; Score 74; DB 2; Length 682;
Best Local Similarity 100.0%; Pred. No. 1.9e-05;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MGYGMALSKINLHN 14
Db 80 MGYGMALSKINLHN 93
;
RESULT 4
US-08-867-941-25
; Sequence 25, Application US/08867941
; Patent No. 5977337
; GENERAL INFORMATION:
; APPLICANT: Loosmore, Sheena M
; APPLICANT: Du, Run-Pan
; APPLICANT: Wang, Quijun
; APPLICANT: Yang, Yan-Ping
; APPLICANT: Klein, Michel H
; TITLE OF INVENTION: LACTOFERRIN RECEPTOR GENES OF MORAXELLA
; NUMBER OF SEQUENCES: 67
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sim & McBurney
; STREET: 6th Floor, 330 University Avenue
; CITY: Toronto
; STATE: Ontario
; COUNTRY: Canada
; ZIP: M5G 1R7
;
COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/867,941
; FILING DATE: 03-JUN-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Stewart, Michael I
; REGISTRATION NUMBER: 24,973
; REFERENCE/DOCKET NUMBER: 1038-681 MIS:jb
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (416) 595-1155
; TELEFAX: (4
```

```
; CITY: Toronto
; STATE: Ontario
; COUNTRY: Canada
; ZIP: MSG 1R7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/074,658
; FILING DATE: 08-MAY-1998
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Stewart, Michael I
; REGISTRATION NUMBER: 24,973
; REFERENCE/DOCKET NUMBER: 1038-795
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (416) 595-1155
; TELEFAX: (416) 595-1163
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 702 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
; US-09-074-658-25
;
; Query Match 100.0%; Score 74; DB 2; Length 702;
; Best Local Similarity 100.0%; Pred. No. 2e-05;
; Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; QY 1 MGYGMALSKINLHN 14
; DB 100 MGYGMALSKINLHN 113
;
; RESULT 7
; US-08-778-570B-11
; Sequence 11, Application US/08778570B
; Patent No. 6437096
; GENERAL INFORMATION:
; APPLICANT: Myers, Lisa E
; APPLICANT: Schryvers, Anthony B
; APPLICANT: Harkness, Robin E
; APPLICANT: Loosmore, Sheena M.
; APPLICANT: Du, Run-Pan
; APPLICANT: Yang, Yan-Ping
; APPLICANT: Klein, Michel H
; TITLE OF INVENTION: Transferrin Receptor Genes of Moraxella
; NUMBER OF SEQUENCES: 43
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sim & McBurney
; STREET: 6th Floor, 330 University Avenue
; CITY: Toronto
; STATE: Ontario
; COUNTRY: Canada
; ZIP: MSG 1R7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/778,570B
; FILING DATE: 03-JAN-1997
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Stewart, Michael I
; REGISTRATION NUMBER: 24973
; REFERENCE/DOCKET NUMBER: 1038-664
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (416) 595-1155
```

```
; TELEFAX: (416) 595-1163
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 702 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
; US-08-778-570B-11
;
; Query Match 100.0%; Score 74; DB 2; Length 702;
; Best Local Similarity 100.0%; Pred. No. 2e-05;
; Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; QY 1 MGYGMALSKINLHN 14
; DB 100 MGYGMALSKINLHN 113
;
; RESULT 8
; US-09-059-584-11
; Sequence 11, Application US/09059584
; Patent No. 6440701
; GENERAL INFORMATION:
; APPLICANT: Myers, Lisa E
; APPLICANT: Schryvers, Anthony B
; APPLICANT: Harkness, Robin E
; APPLICANT: Loosmore, Sheena M.
; APPLICANT: Du, Run-Pan
; APPLICANT: Yang, Yan-Ping
; APPLICANT: Klein, Michel H
; TITLE OF INVENTION: Transferrin Receptor Genes of Moraxella
; NUMBER OF SEQUENCES: 60
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sim & McBurney
; STREET: 6th Floor, 330 University Avenue
; CITY: Toronto
; STATE: Ontario
; COUNTRY: Canada
; ZIP: MSG 1R7
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/059,584
; FILING DATE: 14-APR-1998
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/778,570
; FILING DATE: 03-JAN-1997
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Stewart, Michael I
; REGISTRATION NUMBER: 24973
; REFERENCE/DOCKET NUMBER: 1038-794
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (416) 595-1155
; TELEFAX: (416) 595-1163
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 702 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
; US-09-059-584-11
;
; Query Match 100.0%; Score 74; DB 2; Length 702;
; Best Local Similarity 100.0%; Pred. No. 2e-05;
; Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; QY 1 MGYGMALSKINLHN 14
```



Db 100 MGYGMALSKINLHN 113

RESULT 9

US-09-059-584-46

Sequence 46, Application US/09059584

Patent No. 6440701

GENERAL INFORMATION:

APPLICANT: Myers, Lisa E

APPLICANT: Schryvers, Anthony B

APPLICANT: Harkness, Robin E

APPLICANT: Loosmore, Sheena M.

APPLICANT: Du, Run-Pan

APPLICANT: Yang, Yan-Ping

APPLICANT: Klein, Michel H

TITLE OF INVENTION: Transferrin Receptor Genes of Moraxella

NUMBER OF SEQUENCES: 60

CORRESPONDENCE ADDRESS:

ADDRESSEE: Sim & McBurney

STREET: 6th Floor, 330 University Avenue

CITY: Toronto

STATE: Ontario

COUNTRY: Canada

ZIP: M5G 1R7

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/059,584

FILING DATE: 14-APR-1998

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/778,570

FILING DATE: 03-JAN-1997

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Stewart, Michael I

REGISTRATION NUMBER: 24973

REFERENCE/DOCKET NUMBER: 1038-794

TELECOMMUNICATION INFORMATION:

TELEPHONE: (416) 595-1155

TELEFAX: (416) 595-1163

INFORMATION FOR SEQ ID NO: 46:

SEQUENCE CHARACTERISTICS:

LENGTH: 706 amino acids

TYPE: amino acid

TOPOLOGY: linear

US-09-059-584-46

Query Match 87.8%; Score 65; DB 2; Length 706;

Best Local Similarity 92.3%; Pred. No. 0.00097;

Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLH 13

Db 100 MGYGMALSKINLH 112

RESULT 10

US-09-059-584-49

Sequence 49, Application US/09059584

Patent No. 6440701

GENERAL INFORMATION:

APPLICANT: Myers, Lisa E

APPLICANT: Schryvers, Anthony B

APPLICANT: Harkness, Robin E

APPLICANT: Loosmore, Sheena M.

APPLICANT: Du, Run-Pan

APPLICANT: Yang, Yan-Ping

APPLICANT: Klein, Michel H

TITLE OF INVENTION: Transferrin Receptor Genes of Moraxella

NUMBER OF SEQUENCES: 60

CORRESPONDENCE ADDRESS:

ADDRESSEE: Sim & McBurney

STREET: 6th Floor, 330 University Avenue

CITY: Toronto

STATE: Ontario

COUNTRY: Canada

ZIP: M5G 1R7

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/059,584

FILING DATE: 14-APR-1998

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/778,570

FILING DATE: 03-JAN-1997

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Stewart, Michael I

REGISTRATION NUMBER: 24973

REFERENCE/DOCKET NUMBER: 1038-794

TELECOMMUNICATION INFORMATION:

TELEPHONE: (416) 595-1155

TELEFAX: (416) 595-1163

INFORMATION FOR SEQ ID NO: 46:

SEQUENCE CHARACTERISTICS:

LENGTH: 706 amino acids

TYPE: amino acid

TOPOLOGY: linear

US-09-059-584-46

Query Match 85.1%; Score 63; DB 2; Length 713;

Best Local Similarity 85.7%; Pred. No. 0.0023;

Matches 12; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14

Db 100 MGYGMALSKINLYD 113

RESULT 11

US-09-907-794A-91

Sequence 91, Application US/09907794A

Patent No. 6635468

GENERAL INFORMATION:

APPLICANT: Genentech, Inc.

APPLICANT: Ashkenazi, Avi

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Filvaroff, Ellen

APPLICANT: Fong, Sherman

APPLICANT: Gao, Wei-Qiang

APPLICANT: Gerber, Hanspeter

APPLICANT: Gerritsen, Mary E.

APPLICANT: Goddard, A.

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, Christopher J.

APPLICANT: Gurney, Austin L.

APPLICANT: Hillan, Kenneth, J.

APPLICANT: Kljavin, Ivar J.

APPLICANT: Mather, Jennie P.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumás, Daniel

APPLICANT: Williams, P. Mickey

```

; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,794A
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-907-794A-91

Query Match 56.8%; Score 42; DB 2; Length 696;
Best Local Similarity 63.6%; Pred. No. 20;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GVALSKINLN 14
|::|||::|||
Db 493 GVSLSKLSLN 503

RESULT 12
US-09-905-125A-91
; Sequence 91, Application US/09905125A
; Patent No. 6664376
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.

```

```

; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,125A
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-905-125A-91

Query Match 56.8%; Score 42; DB 2; Length 696;
Best Local Similarity 63.6%; Pred. No. 20;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GVALSKINLN 14
|::|||::|||
Db 493 GVSLSKLSLN 503

RESULT 13
US-09-902-775A-91
; Sequence 91, Application US/09902775A
; Patent No. 6686451
; GENERAL INFORMATION:

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; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-906-700-91

Query Match          56.8%; Score 42; DB 2; Length 696;
Best Local Similarity 63.6%; Pred. No. 20;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      4 GVALSKINLHN 14
       |:|:|:|:|
Db      493 GVSLSKLSLHN 503

```

RESULT 15

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US-09-903-603A-91
; Sequence 91, Application US/09903603A
; Patent No. 6767995
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secured and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: GNE.1618P2C12
; CURRENT APPLICATION NUMBER: US/09/903,603A
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214

```

```

; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-903-603A-91

Query Match          56.8%; Score 42; DB 2; Length 696;
Best Local Similarity 63.6%; Pred. No. 20;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

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Qy      4 GVALSKINLHN 14
       |:|:|:|:|
Db      493 GVSLSKLSLHN 503

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RESULT 16

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US-09-904-920A-91
; Sequence 91, Application US/09904920A
; Patent No. 6806352
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secured and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,920A
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222

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; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08  
; PRIOR APPLICATION NUMBER: PCT/US99/20944  
; PRIOR FILING DATE: 1999-09-13  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/21547  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/23089  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: PCT/US99/28214  
; PRIOR FILING DATE: 1999-11-29  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: 1999-11-30  
; PRIOR APPLICATION NUMBER: PCT/US99/28564  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/28565  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: 1999-12-16  
; PRIOR APPLICATION NUMBER: PCT/US99/30911  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US99/30999  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US00/00219  
; PRIOR FILING DATE: 2000-01-05  
; NUMBER OF SEQ ID NOS: 423  
; SEQ ID NO 91  
; LENGTH: 696  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; US-09-904-920A-91

Query Match 56.8%; Score 42; DB 2; Length 696;  
Best Local Similarity 63.6%; Pred. No. 20;  
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GVALSKINLHN 14  
|:||||:|  
Db 493 GVSLSKLSLHN 503

RESULT 17  
US-09-909-064-91  
; Sequence 91, Application US/09909064  
; Patent No. 6818449  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Fan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumaq, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/909,064  
; PRIOR FILING DATE: 2001-07-18  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08  
; PRIOR APPLICATION NUMBER: PCT/US99/20944  
; PRIOR FILING DATE: 1999-09-13  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/21547  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/23089  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: PCT/US99/28214  
; PRIOR FILING DATE: 1999-11-29  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: 1999-11-30  
; PRIOR APPLICATION NUMBER: PCT/US99/28564  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/28565  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: 1999-12-16  
; PRIOR APPLICATION NUMBER: PCT/US99/30911  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US99/30999  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US00/00219  
; PRIOR FILING DATE: 2000-01-05  
; NUMBER OF SEQ ID NOS: 423  
; SEQ ID NO 91  
; LENGTH: 696  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; US-09-909-064-91

Query Match 56.8%; Score 42; DB 2; Length 696;  
Best Local Similarity 63.6%; Pred. No. 20;  
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GVALSKINLHN 14  
|:||||:|  
Db 493 GVSLSKLSLHN 503

RESULT 18  
US-09-905-381A-91  
; Sequence 91, Application US/09905381A  
; Patent No. 6818746  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.

```
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,381A
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-905-381A-91

Query Match 56.8%; Score 42; DB 2; Length 696;
Best Local Similarity 63.6%; Pred. No. 20;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 4 GMAISKINLHN 14
DB 493 GVSLSKSLHN 503

RESULT 19
US-09-906-618-91
; Sequence 91, Application US/09906618
; Patent No. 6828146
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
```

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; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,618
; CURRENT FILING DATE: 2001-07-16
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-906-618-91

Query Match 56.8%; Score 42; DB 2; Length 696;
Best Local Similarity 63.6%; Pred. No. 20;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
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Qy      4 GMAJSKINLHN 14
Db      493 GVSLSKLSLHN 503

RESULT 20
US-09-906-646-91
; Sequence 91, Application US/09906646
; Patent No. 6852848
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,646
; PRIOR FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-08-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20

; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-906-646-91

Query Match      56.8%; Score 42; DB 2; Length 696;
Best Local Similarity 63.6%; Pred. No. 20;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      4 GMAJSKINLHN 14
Db      493 GVSLSKLSLHN 503

RESULT 21
US-09-904-462-91
; Sequence 91, Application US/09904462
; Patent No. 6878807
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,462
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
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; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
; ORGANISM: Homo Sapien
US-09-904-462-91

Query Match      56.8%; Score 42; DB 2; Length 696;
Best Local Similarity 63.6%; Pred. No. 20;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      4 GVALSKINLHN 14
Db      493 GVSLSKLSLHN 503

RESULT 22
US-09-902-736A-91
; Sequence 91, Application US/09902736A
; Patent No. 6894148
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,736A
; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
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; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
; ORGANISM: Homo sapiens
US-09-902-736A-91

Query Match      56.8%; Score 42; DB 2; Length 696;
Best Local Similarity 63.6%; Pred. No. 20;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      4 GVALSKINLHN 14
Db      493 GVSLSKLSLHN 503

RESULT 23
US-09-906-722A-91
; Sequence 91, Application US/09906722A
; Patent No. 6946262
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
```



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; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-39421

Query Match          54.1%; Score 40; DB 2; Length 81;
Best Local Similarity 53.8%; Pred. No. 4.1;
Matches 7; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY      2 GYGWALSKINLHN 14
      || : : : |||
Db      45 GYMHSIPRINLHN 57

RESULT 25
US-09-270-767-54638
; Sequence 54638, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 54638
; LENGTH: 81
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; FEATURE:
; OTHER INFORMATION: Xaa means any amino acid
US-09-270-767-54638

Query Match          54.1%; Score 40; DB 2; Length 81;
Best Local Similarity 53.8%; Pred. No. 4.1;
Matches 7; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY      2 GYGWALSKINLHN 14
      || : : : |||
Db      45 GYMHSIPRINLHN 57

RESULT 26
US-09-902-540-11017
; Sequence 11017, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:

```

Gregory J.  
Hinkle, Steven C.  
Slater, Roger C.  
Wiegand, Roger C.

FILE REFERENCE: 38-10(15849)B  
CURRENT APPLICATION NUMBER: US/09/902,540  
CURRENT FILING DATE: 2001-07-10

```

; NUMBER OF SEQ ID NOS: 16925
;
; SEQ ID NO 11017
; LENGTH: 622
; TYPE: PRT
; ORGANISM: Myxococcus xanthus
;

```

```

US-09-902-540-11017
Query March 54.1%; Score 40; DB 2; Length 622;
Best Local Similarity 63.6%; Pred. No. 42;
Matches 7; Conservative 3; Mismatches 1; Indels 0; Gaps 0
QY 2 GYGMALSKINL 12
||| ||::|
Db 405 GYGMLSRLSL 415

```

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US-09-134-000C-3657
; Sequence 3657, Application US/09134000C
; Patent No. 6617156
; ORGANISM: Lactobacillus reuteri
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; FILE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; PRIOR FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3657
; LENGTH: 315
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-134-000C-3657

Query Match      52.7%; Score 39; DB 2; Length 315;
Best Local Similarity 54.5%; Pred. No. 30;
Matches 6; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY      2 GYGMALSKINL 12
       |.:|.:|.:|
Db      25 GFGLAITFNL 35

RESULT 28
US-09-328-352-7870
; Sequence 7870, Application US/09328352
; Patent No. 6562958
; ORGANISM: Acinetobacter baumannii
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breston et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; FILE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GTC99-032A
; CURRENT APPLICATION NUMBER: US/09/328,352
; PRIOR FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 7870
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
US-09-328-352-7870

Query Match      51.4%; Score 38; DB 2; Length 130;
Best Local Similarity 50.0%; Pred. No. 17;
Matches 6; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY      3 YGMALSKINLHN 14
       |.:|.:|.:|
Db      99 MGVMSAISIH 110

RESULT 29
US-09-561-077C-32
; Sequence 32, Application US/09561077C
; Patent No. 6706501
; ORGANISM: Lactobacillus reuteri
; GENERAL INFORMATION:
; APPLICANT: Rosson, Reinhardt D.
; APPLICANT: Deng, Ming-de
; TITLE OF INVENTION: LINOLEATE ISOMERASE
; FILE REFERENCE: 3161-20-C1
; CURRENT APPLICATION NUMBER: US/09/561,077C
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: 60/141,798
; PRIOR FILING DATE: 1999-06-30
; NUMBER OF SEQ ID NOS: 80
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 32
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; LENGTH: 282
; TYPE: PRT
; ORGANISM: Lactobacillus reuteri
US-09-561-077C-32

Query Match      51.4%; Score 38; DB 2; Length 282;
Best Local Similarity 46.2%; Pred. No. 41;
Matches 6; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY      1 MGYMALSINLH 13
       |.:|.:|.:|
Db      132 LNYGIWLKVRHL 144

RESULT 30
US-09-221-014-32
; Sequence 32, Application US/09221014C
; Patent No. 6743609
; ORGANISM: Lactobacillus reuteri
; GENERAL INFORMATION:
; APPLICANT: Rosson, Reinhardt D.
; APPLICANT: Grund, Alan D.
; APPLICANT: Deng, Ming-de
; APPLICANT: Sanchez-Riera, Fernando
; TITLE OF INVENTION: LINOLEATE ISOMERASE
; FILE REFERENCE: 3161-20
; CURRENT APPLICATION NUMBER: US/09/221,014C
; PRIOR FILING DATE: 1998-12-23
; PRIOR APPLICATION NUMBER: 60/068,617
; PRIOR FILING DATE: 1997-12-23
; EARLIER APPLICATION NUMBER: 60/089,560
; EARLIER FILING DATE: 1998-06-17
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 32
; LENGTH: 282
; TYPE: PRT
; ORGANISM: Lactobacillus reuteri
US-09-221-014-32

Query Match      51.4%; Score 38; DB 2; Length 282;
Best Local Similarity 46.2%; Pred. No. 41;
Matches 6; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY      1 MGYMALSINLH 13
       |.:|.:|.:|
Db      132 LNYGIWLKVRHL 144

RESULT 31
US-09-171-337A-6
; Sequence 6, Application US/09171337A
; Patent No. 6300095
; ORGANISM: Lactobacillus reuteri
; GENERAL INFORMATION:
; APPLICANT: BARREDO FUENTE, Jose Luis
; APPLICANT: RODRIGUEZ SAIZ, Marta
; APPLICANT: COLLADOS DE LA VIEJA, Alfonso J.
; APPLICANT: MORENO VALLE, Migeul Angel
; APPLICANT: SALTO MALDONADO, Francisco
; APPLICANT: DIEZ GARCIA, Bruno
; TITLE OF INVENTION: PROMOTERS OF THE GENES GLUTAMATE
; FILE OF INVENTION: DESHYDROGENASE, -N-ACETYLHEXOSAMINIDASE
; FILE REFERENCE: 3161-20-C1
; CURRENT APPLICATION NUMBER: 60/141,798
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: 60/141,798
; PRIOR FILING DATE: 1999-06-30
; NUMBER OF SEQ ID NOS: 80
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 32
; COMPUTER READABLE FORM: Disk 1.44MB
; MEDIUM TYPE: 3-1/4"
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COMPUTER: IBM PC compatible  
OPERATING SYSTEM: Microsoft Windows for Workgroups 3.11  
SOFTWARE: WordPerfect 8 for Windows  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/171,337A  
FILING DATE: 14-May-1999  
CLASSIFICATION: 536  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/ES98/00056  
FILING DATE: 5-MAR-1998  
APPLICATION NUMBER: ES9700482  
FILING DATE: 5-MAR-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: MASS, Clifford J.  
REGISTRATION NUMBER: 30,086  
(C) REF./DOCKET NO.: U-011948-3  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 233288  
INFORMATION FOR SEQ ID NO: 6  
SEQUENCE CHARACTERISTICS:  
LENGTH: 596 amino acids  
TYPE: amino acids  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
ORIGINAL SOURCE:  
ORGANISM: Penicillium chrysogenum  
FEATURE:  
OTHER INFORMATION: amino acid sequence of the -N-  
acetylhexosaminidase enzyme  
(EC.3.2.1.52) with a  
molecular weight of 66545 Da.  
SEQUENCE DESCRIPTION: SEQ ID NO: 6  
US-09-171-337A-6  
Query Match 50.7%; Score 37.5; DB 2; Length 596;  
Best Local Similarity 81.8%; Pred. No. 1.2e+02;  
Matches 9; Conservative 1; Mismatches 0; Indels 1; Gaps 1;  
Qy 4 GWALSKIN-LH 13  
Db 202 GWALSKNLVHL 212  
RESULT 32  
US-09-631-022-6  
Sequence 6, Application US/09631022  
Patent No. 6558921  
GENERAL INFORMATION:  
APPLICANT: BARREDO FUENTE, Jose Luis  
RODRIGUEZ SAIZ, Marta  
COLLADOS DE LA VIEJA, Alfonso J.  
MORENO VALLE Migueu Angel  
SALTO MALDONADO, Francisco  
DIEZ GARCIA, Bruno  
TITLE OF INVENTION: PROMOTERS OF THE GENES GLUTAMATE  
DESHYDROGENASE, -N-ACETYLHEXOSAMINIDASE  
AND -ACTIN AND THEIR USE IN FILAMENTOUS  
FUNGI EXPRESSION, SECRETION AND ANTISENSE  
NUMBER OF SEQUENCES: 20  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: LADAS & PARRY  
STREET: 26 WEST 61 STREET  
CITY: NEW YORK  
STATE: NY  
COUNTRY: USA  
ZIP: 10023  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3-1/4" Disk 1.44MB  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: Microsoft Windows for Workgroups 3.11  
SOFTWARE: WordPerfect 8 for Windows  
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/631,022  
FILING DATE: 02-Aug-2000  
CLASSIFICATION: 536  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/171,337  
FILING DATE: 14-MAY-1999  
APPLICATION NUMBER: PCT/ES98/00056  
FILING DATE: 5-MAR-1998  
APPLICATION NUMBER: ES9700482  
FILING DATE: 5-MAR-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: MASS, Clifford J.  
REGISTRATION NUMBER: 30,086  
(C) REF./DOCKET NO.: U-02886-6  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 233288  
INFORMATION FOR SEQ ID NO: 6  
SEQUENCE CHARACTERISTICS:  
LENGTH: 596 amino acids  
TYPE: amino acids  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
ORIGINAL SOURCE:  
ORGANISM: Penicillium chrysogenum  
FEATURE:  
OTHER INFORMATION: amino acid sequence of the -N-  
acetylhexosaminidase enzyme  
(EC.3.2.1.52) with a  
molecular weight of 66545 Da.  
SEQUENCE DESCRIPTION: SEQ ID NO: 6  
US-09-631-022-6  
Query Match 50.7%; Score 37.5; DB 2; Length 596;  
Best Local Similarity 81.8%; Pred. No. 1.2e+02;  
Matches 9; Conservative 1; Mismatches 0; Indels 1; Gaps 1;  
Qy 4 GWALSKIN-LH 13  
Db 202 GWALSKNLVHL 212  
RESULT 33  
US-09-830-807-7  
Sequence 7, Application US/09830807  
Patent No. 6846667  
GENERAL INFORMATION:  
APPLICANT: Crooke, Helen R.  
APPLICANT: Clarke, Enda E.  
APPLICANT: Everest, Paul H.  
APPLICANT: Dougan, Gordon  
APPLICANT: Holden, David W.  
APPLICANT: Shea, Jacqueline E.  
APPLICANT: Feldman, Robert G.  
TITLE OF INVENTION: VIRULENCE GENES AND PROTEINS, AND THEIR USE  
FILE REFERENCE: GJE-65  
CURRENT APPLICATION NUMBER: US/09/830,807  
CURRENT FILING DATE: 2001-04-30  
NUMBER OF SEQ ID NOS: 72  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 7  
LENGTH: 42  
TYPE: PRT  
ORGANISM: Escherichia coli  
US-09-830-807-7  
Query Match 50.0%; Score 37; DB 2; Length 42;  
Best Local Similarity 62.5%; Pred. No. 7.2;  
Matches 10; Conservative 0; Mismatches 2; Indels 4; Gaps 1;  
Qy 2 GYGMAIS----KINLH 13  
Db 16 GVGAAISNKLAKINLH 31

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; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6509
; LENGTH: 217
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-6509

Query Match      50.0%; Score 37; DB 2; Length 217;
Best Local Similarity 50.0%; Pred. No. 47;
Matches 6; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY      2 GYGMALSKINLH 13
      |||: |||:
Db      77 GYGLPSSFNMH 88

RESULT 37
US-09-949-016-9719
; Sequence 9719, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al. POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9719
; LENGTH: 228
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-9719

Query Match      50.0%; Score 37; DB 2; Length 228;
Best Local Similarity 50.0%; Pred. No. 49;
Matches 6; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY      2 GYGMALSKINLH 13
      |||: |||:
Db      88 GYGLPSSFNMH 99

RESULT 38
US-09-134-000C-6538
; Sequence 6538, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; PRIOR FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6538
; LENGTH: 618
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-134-000C-6538

Query Match      50.0%; Score 37; DB 2; Length 618;

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; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6509
; LENGTH: 217
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-6509

Query Match      50.0%; Score 37; DB 2; Length 217;
Best Local Similarity 50.0%; Pred. No. 47;
Matches 6; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY      2 GYGMALSKINLH 13
      |||: |||:
Db      77 GYGLPSSFNMH 88

RESULT 37
US-09-949-016-9719
; Sequence 9719, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al. POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9719
; LENGTH: 228
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-9719

Query Match      50.0%; Score 37; DB 2; Length 228;
Best Local Similarity 50.0%; Pred. No. 49;
Matches 6; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY      2 GYGMALSKINLH 13
      |||: |||:
Db      88 GYGLPSSFNMH 99

RESULT 38
US-09-134-000C-6538
; Sequence 6538, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; PRIOR FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6538
; LENGTH: 618
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-134-000C-6538

Query Match      50.0%; Score 37; DB 2; Length 618;

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Db 142 VGFGEAISKQFVDALETGQDARAAMNLHN 170

Search completed: May 13, 2006, 08:15:31  
Job time : 48 secs

Best Local Similarity 53.8%; Pred. No. 1.5e+02;  
Matches 7; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 2 GYGMALSKINLHN 14  
Db 389 GYGYMLYSVNLKN 401

RESULT 39  
US-09-949-016-6354  
; Sequence 6354, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 6354  
; LENGTH: 351  
; TYPE: PRT  
; ORGANISM: Human  
US-09-949-016-6354

Query Match 49.3%; Score 36.5; DB 2; Length 351;  
Best Local Similarity 31.0%; Pred. No. 1e+02;  
Matches 9; Conservative 4; Mismatches 1; Indels 15; Gaps 1;

QY 1 MGYGMALSK-----INLHN 14  
Db 136 VGFGEAISKQFVDALETGQDARAAMNLHN 164

RESULT 40  
US-09-949-016-7724  
; Sequence 7724, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 7724  
; LENGTH: 357  
; TYPE: PRT  
; ORGANISM: Human  
US-09-949-016-7724

Query Match 49.3%; Score 36.5; DB 2; Length 357;  
Best Local Similarity 31.0%; Pred. No. 1e+02;  
Matches 9; Conservative 4; Mismatches 1; Indels 15; Gaps 1;

QY 1 MGYGMALSK-----INLHN 14

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QM protein - protein search, using sw model

Run on: May 13, 2006, 08:06:48 ; Search time 185 Seconds  
(without alignments)

33.250 Million cell updates/sec

Title: US-10-769-514-17

Perfect score: 74

Sequence: 1 MGYGMSLKINLHN 14

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2443163 seqs, 439378781 residues

Total number of hits satisfying chosen parameters: 2443163

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

A Geneseq 21:\*

1: Geneseqp1980s:\*

2: Geneseqp1990s:\*

3: Geneseqp2000s:\*

4: Geneseqp2001s:\*

5: Geneseqp2002s:\*

6: Geneseqp2003as:\*

7: Geneseqp2003bs:\*

8: Geneseqp2004s:\*

9: Geneseqp2005s:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	74	100.0	14	ADV70480	Adv70480 Moraxella
2	74	100.0	15	ADV70478	Adv70478 Moraxella
3	74	100.0	15	ADV70479	Adv70479 Moraxella
4	74	100.0	702	AAW35313	Aaw35313 M. catarr
5	74	100.0	702	AAV43383	Aav43383 M. catarr
6	65	87.8	706	AAV43378	Aav43378 M. catarr
7	63	85.1	714	AAW35316	Aaw35316 M. catarr
8	46	62.2	190	ABM69725	Abm69725 Photorhab
9	42	56.8	635	ADI36920	Adi36920 Human LRR
10	42	56.8	695	AAV94963	Aav94963 Human sec
11	42	56.8	696	AAV08076	Aav08076 Human PRO
12	42	56.8	696	AAV13359	Aav13359 Amino aci
13	42	56.8	696	AAV70671	Aav70671 Human PRO
14	42	56.8	696	ADC78411	Adc78411 Human PRO
15	42	56.8	696	AAV80227	Aav80227 Human PRO
16	42	56.8	696	AAU00824	Aau00824 Human imm
17	42	56.8	696	AAU12348	Aau12348 Human PRO
18	42	56.8	696	AAV50905	Aav50905 Human PRO
19	42	56.8	696	AAV71605	Aav71605 Human PRO
20	42	56.8	696	ABO17792	Abol7792 Novel hum
21	42	56.8	696	ABU71460	Abu71460 Human PRO
22	42	56.8	696	ABU81046	Abu81046 Human PRO
23	42	56.8	696	ABU71906	Abu71906 Human sec
24	42	56.8	696	ABO01789	Abol1789 Novel hum

25	42	56.8	696	6	ABU66746	Abu66746 Human PRO
26	42	56.8	696	6	ABU54362	Abu54362 Human sec
27	42	56.8	696	6	ABO47377	Abol47377 Human sec
28	42	56.8	696	6	ABU59827	Abu59827 Novel sec
29	42	56.8	696	6	ABO25017	Abol25017 Human sec
30	42	56.8	696	6	ABU64514	Abu64514 Human sec
31	42	56.8	696	6	ABU67360	Abu67360 Human sec
32	42	56.8	696	6	ABO14880	Abol14880 Human sec
33	42	56.8	696	6	ABU67022	Abu67022 Human sec
34	42	56.8	696	6	ABU69637	Abu69637 Novel hum
35	42	56.8	696	6	ABO14819	Abol14819 Human sec
36	42	56.8	696	6	ADA45873	Ada45873 Novel hum
37	42	56.8	696	6	ADA76304	Ada76304 Human PRO
38	42	56.8	696	6	ADB29296	Adb29296 Human sec
39	42	56.8	696	6	ADA18954	Ada18954 Human PRO
40	42	56.8	696	6	ADA61577	Ada61577 Homo sapi
41	42	56.8	696	6	ADB19362	Adb19362 Novel hum
42	42	56.8	696	6	ADB27903	Adb27903 Human PRO
43	42	56.8	696	6	ADA86382	Ada86382 Novel hum
44	42	56.8	696	6	ADB15946	Adb15946 Human PRO
45	42	56.8	696	6	ADA47732	Ada47732 Human PRO
46	42	56.8	696	6	ADA18152	Ada18152 Human sec
47	42	56.8	696	6	ABO32771	Abol32771 Human sec
48	42	56.8	696	6	ADA67527	Ada67527 Human PRO
49	42	56.8	696	6	ADB30534	Adb30534 Human PRO
50	42	56.8	696	6	ADA85830	Ada85830 Novel hum
51	42	56.8	696	6	ADA97042	Ada97042 Human PRO
52	42	56.8	696	6	ADA79346	Ada79346 Human PRO
53	42	56.8	696	6	ADA87485	Ada87485 Novel hum
54	42	56.8	696	6	ADB16687	Adb16687 Human PRO
55	42	56.8	696	6	ABO34831	Abol34831 Human PRO
56	42	56.8	696	6	ADA16127	Ada16127 Human sec
57	42	56.8	696	6	ADA91779	Ada91779 Novel hum
58	42	56.8	696	6	ADB14842	Adb14842 Human PRO
59	42	56.8	696	6	ADB18803	Adb18803 Novel hum
60	42	56.8	696	6	ADA94018	Ada94018 Human PRO
61	42	56.8	696	6	ADB19914	Adb19914 Novel hum
62	42	56.8	696	6	ADB13226	Adb13226 Human PRO
63	42	56.8	696	6	ABO43325	Abol43325 Novel hum
64	42	56.8	696	6	ADA74480	Ada74480 Human PRO
65	42	56.8	696	6	ADA42272	Ada42272 Human sec
66	42	56.8	696	6	ADB24713	Adb24713 Human PRO
67	42	56.8	696	6	ADA82237	Ada82237 Human PRO
68	42	56.8	696	6	ADA75200	Ada75200 Human PRO
69	42	56.8	696	6	ADA85278	Ada85278 Novel hum
70	42	56.8	696	6	ADA84726	Ada84726 Novel hum
71	42	56.8	696	6	ABO17509	Abol17509 Human PRO
72	42	56.8	696	6	ADB29982	Adb29982 Human PRO
73	42	56.8	696	6	ADA80510	Ada80510 Human PRO
74	42	56.8	696	6	ADA75752	Ada75752 Human PRO
75	42	56.8	696	6	ADA46977	Ada46977 Human PRO
76	42	56.8	696	6	ADB25273	Adb25273 Human PRO
77	42	56.8	696	6	ADA93449	Ada93449 Human PRO
78	42	56.8	696	6	ADB26799	Adb26799 Human PRO
79	42	56.8	696	6	ADB31086	Adb31086 Human PRO
80	42	56.8	696	6	ADA61014	Ada61014 Homo sapi
81	42	56.8	696	6	ADB24161	Adb24161 Human PRO
82	42	56.8	696	6	ADA96490	Ada96490 Human PRO
83	42	56.8	696	6	ADA81062	Ada81062 Human PRO
84	42	56.8	696	6	ADA95938	Ada95938 Human PRO
85	42	56.8	696	6	ADB26247	Adb26247 Human PRO
86	42	56.8	696	6	ADB21732	Adb21732 Novel hum
87	42	56.8	696	7	ADA77511	Ada77511 Human PRO
88	42	56.8	696	7	ADB18251	Adb18251 Human PRO
89	42	56.8	696	7	ADA86934	Ada86934 Novel hum
90	42	56.8	696	7	ADA15551	Ada15551 Human sec
91	42	56.8	696	7	ADA12980	Ada12980 Human sec
92	42	56.8	696	7	ADA11848	Ada11848 Human sec
93	42	56.8	696	7	ADA88037	Ada88037 Novel hum
94	42	56.8	696	7	ADA46425	Ada46425 Novel hum
95	42	56.8	696	7	ADA17195	Ada17195 Human sec
96	42	56.8	696	7	ADA42698	Ada42698 Human sec
97	42	56.8	696	7	ADB28455	Adb28455 Human PRO

98 42 56.8 696 7 ADB29007 Human PRO  
99 42 56.8 696 7 ADA76959 Human PRO  
100 42 56.8 696 7 ADA88589 Novel hum

ALIGNMENTS

RESULT 1  
ID ADV70480 standard; peptide; 14 AA.  
XX AC ADV70480;  
XX DT 10-MAR-2005 (first entry)  
XX DE Moraxella catarrhalis transferrin binding protein B region - SEQ ID 17.  
XX KW bacterial infection; antibacterial; bacterial meningitis; antibacterial;  
XX KW neuroprotective; otitis media; auditory; transferrin binding protein B.  
XX CS Moraxella catarrhalis.  
XX PN US2004258695-A1.  
XX PD 23-DEC-2004.  
XX PF 30-JAN-2004; 2004US-00769514.  
XX PR 31-JAN-2003; 2003US-0444113P.  
XX PA (SCHR/) SCHRIVERS A B.  
XX PI Schryvers AB;  
XX DR WPI; 2005-038740/04.  
XX PT Transferrin-binding molecules useful for eliciting antibodies to  
XX PT bacterial transferrin binding proteins, which block bacterial transferrin  
XX PT uptake.  
XX PS Claim 7; SEQ ID NO 17; 27pp; English.  
XX CS The invention comprises a molecule (e.g. peptide) which is capable of:  
XX CC binding to a region of a transferrin protein that is recognized by a  
XX CC bacterial transferrin binding protein; and eliciting an antibody to the  
XX CC bacterial transferrin binding protein. The transferrin binding molecule  
XX CC of the invention is useful for preventing and treating bacterial  
XX CC infections (e.g. bacterial meningitis and otitis media). The present  
XX CC amino acid sequence represents a region of the Moraxella catarrhalis  
XX CC transferrin binding protein B.  
XX SQ Sequence 14 AA;  
Query Match 100.0%; Score 74; DB 9; Length 14;  
Best Local Similarity 100.0%; Pred. No. 5.9e-07;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14  
DB |||||  
1 MGYGMALSKINLHN 14

RESULT 2  
ID ADV70478 standard; peptide; 15 AA.  
XX AC ADV70478;  
XX DT 10-MAR-2005 (first entry)  
XX DE Moraxella catarrhalis transferrin binding protein B region - SEQ ID 15.  
XX KW bacterial infection; antibacterial; bacterial meningitis; antibacterial;  
XX KW neuroprotective; otitis media; auditory; transferrin binding protein B.  
XX OS Moraxella catarrhalis.  
XX PN US2004258695-A1.  
XX PD 23-DEC-2004.  
XX PF 30-JAN-2004; 2004US-00769514.  
XX PR 31-JAN-2003; 2003US-0444113P.  
XX PA (SCHR/) SCHRIVERS A B.  
XX PI Schryvers AB;  
XX DR WPI; 2005-038740/04.

KW bacterial infection; antibacterial; bacterial meningitis; antibacterial;  
KW KW neuroprotective; otitis media; auditory; transferrin binding protein B.  
OS Moraxella catarrhalis.  
XX PN US2004258695-A1.  
XX PD 23-DEC-2004.  
XX PF 30-JAN-2004; 2004US-00769514.  
XX PR 31-JAN-2003; 2003US-0444113P.  
XX PA (SCHR/) SCHRIVERS A B.  
XX PI Schryvers AB;  
XX DR WPI; 2005-038740/04.  
XX PT Transferrin-binding molecules useful for eliciting antibodies to  
XX PT bacterial transferrin binding proteins, which block bacterial transferrin  
XX PT uptake.  
XX PS Example 1; SEQ ID NO 15; 27pp; English.  
XX CS The invention comprises a molecule (e.g. peptide) which is capable of:  
XX CC binding to a region of a transferrin protein that is recognized by a  
XX CC bacterial transferrin binding protein; and eliciting an antibody to the  
XX CC bacterial transferrin binding protein. The transferrin binding molecule  
XX CC of the invention is useful for preventing and treating bacterial  
XX CC infections (e.g. bacterial meningitis and otitis media). The present  
XX CC amino acid sequence represents a region of the Moraxella catarrhalis  
XX CC transferrin binding protein B.  
XX SQ Sequence 15 AA;  
Query Match 100.0%; Score 74; DB 9; Length 15;  
Best Local Similarity 100.0%; Pred. No. 6.4e-07;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14  
DB |||||  
1 MGYGMALSKINLHN 14

RESULT 3  
ADV70479  
ID ADV70479 standard; peptide; 15 AA.  
XX AC ADV70479;  
XX DT 10-MAR-2005 (first entry)  
XX DE Moraxella catarrhalis transferrin binding protein B region - SEQ ID 16.  
XX KW bacterial infection; antibacterial; bacterial meningitis; antibacterial;  
KW KW neuroprotective; otitis media; auditory; transferrin binding protein B.  
XX OS Moraxella catarrhalis.  
XX PN US2004258695-A1.  
XX PD 23-DEC-2004.  
XX PF 30-JAN-2004; 2004US-00769514.  
XX PR 31-JAN-2003; 2003US-0444113P.  
XX PA (SCHR/) SCHRIVERS A B.  
XX PI Schryvers AB;  
XX DR WPI; 2005-038740/04.



XX Transferrin-binding molecules useful for eliciting antibodies to  
PT bacterial transferrin binding proteins, which block bacterial transferrin  
PT uptake.  
XX Example 1; SEQ ID NO 16; 27pp; English.  
XX The invention comprises a molecule (e.g. peptide) which is capable of:  
CC binding to a region of a transferrin protein that is recognized by a  
CC bacterial transferrin binding protein; and eliciting an antibody to a  
CC bacterial transferrin binding protein. The transferrin binding molecule  
CC of the invention is useful for preventing and treating bacterial  
CC infections (e.g. bacterial meningitis and otitis media). The present  
CC amino acid sequence represents a region of the Moraxella catarrhalis  
CC transferrin binding protein B.  
XX  
XX SQ Sequence 15 AA;  
Query Match 100.0%; Score 74; DB 9; Length 15;  
Best Local Similarity 100.0%; Pred. No. 6.4e-07;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MGYGWSKINLHN 14  
| | | | | | | | | | | | | |  
DB 2 MGYGWSKINLHN 15  
| | | | | | | | | | | | | |  
RESULT 4  
AAW35313  
ID AAW35313 standard; protein; 702 AA.  
XX  
XX AC AAW35313;  
XX  
XX DT 14-APR-1998 (first entry)  
XX  
XX DE M. catarrhalis 4223 transferrin binding protein tbpB.  
XX Transferrin binding protein; tbpB; immunogen; vaccine; protection;  
XX otitis media; antibody; diagnosis; therapy; carrier; gene isolation.  
XX  
XX OS Moraxella catarrhalis.  
XX  
XX PN WO9732980-A1.  
XX  
XX PD 12-SEP-1997.  
XX  
XX PF 07-MAR-1997; 97WO-CA000163.  
XX  
XX PR 08-MAR-1996; 96US-00613009.  
XX  
XX PR 03-JAN-1997; 97US-00778570.  
XX  
XX PA (CONN-) CONNAUGHT LAB LTD.  
XX  
XX PI Myers LE, Schryvers AB, Harkness RE, Loosmore SM, Du R, Yang Y;  
XX Klein MH;  
XX WPI; 1997-457533/42.  
XX  
XX DR N-PSDB; AAT95248.  
XX  
XX PT DNA encoding transferrin receptor of a Moraxella strain - also proteins,  
XX useful in vaccines, as diagnostic agents and in the production of  
XX antibodies.  
XX  
XX PS Claim 6; Fig 6; 162pp; English.  
XX  
XX CC The present sequence is the Moraxella catarrhalis 4223 transferrin  
XX binding protein tbpB, which can be used as an immunogen, e.g. in vaccines  
XX to protect against diseases caused by M. catarrhalis (specifically otitis  
XX media), or to raise antibodies for diagnosis and therapy. It can also be  
XX used as a carrier for other antigenic determinants, e.g. of bacteria  
XX containing polysaccharide antigens or abnormal polysaccharides present on  
XX tumour cells, particularly to make conjugate vaccines. The tbpB DNA can  
XX be used to detect nucleic acid encoding transferrin receptor protein,

CC e.g. for diagnosis or gene isolation, by usual hybridisation assays  
XX  
XX SQ Sequence 702 AA;  
Query Match 100.0%; Score 74; DB 2; Length 702;  
Best Local Similarity 100.0%; Pred. No. 5.2e-05;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MGYGWSKINLHN 14  
| | | | | | | | | | | | | |  
DB 100 MGYGWSKINLHN 113  
| | | | | | | | | | | | | |  
RESULT 5  
AAW43383  
ID AAW43383 standard; protein; 702 AA.  
XX  
XX AC AAW43383;  
XX  
XX DT 26-JAN-2000 (first entry)  
XX  
XX DE M. catarrhalis strain 4223 tbp2 protein.  
XX Tbp2 gene; Tbp2; transferrin binding protein; diagnosis; otitis media;  
XX genetic immunisation; Moraxella infection; antigen; vaccine; detection;  
XX antitumour antibody production; therapy.  
XX  
XX OS Moraxella catarrhalis.  
XX  
XX PN WO9952947-A2.  
XX  
XX PD 21-OCT-1999.  
XX  
XX PF 12-APR-1999; 99WO-CA000307.  
XX  
XX PR 14-APR-1998; 98US-00059584.  
XX  
XX PA (CONN-) CONNAUGHT LAB LTD.  
XX  
XX PI Myers LE, Schryvers AB, Harkness RE, Loosmore SM, Du R, Yang Y;  
XX Klein MH;  
XX WPI; 1999-620376/53.  
XX  
XX DR N-PSDB; AAZ31949.  
XX  
XX PT Nucleic acid encoding transferrin binding protein 2 of Moraxella  
XX catarrhalis, useful for diagnostics, immunization and recombinant protein  
XX production.  
XX  
XX PS Example 6; Fig 8; 114pp; English.  
XX  
XX CC This sequence is the Moraxella catarrhalis strain 4223 transferrin  
XX binding protein (Tbp2) of the invention. The DNA sequence is also  
XX referred to as the Tbp2 gene. The Tbp2 gene is used to produce  
XX recombinant Tbp2; for identification or diagnosis of Moraxella, or for  
XX cloning related species, using hybridisation assays; and for genetic  
XX immunisation against Moraxella infections, e.g. otitis media. The Tbp2  
XX proteins are useful as antigens, either in vaccines (including components  
XX of conjugate vaccines that contain antigens from other bacteria or from  
XX tumours, in which case they elicit production of antitumour antibodies  
XX that may be coupled to chemotherapeutic agents or biologically active  
XX agents) or to raise antibodies (for use as diagnostic reagents and for  
XX treating Moraxella infections), also for detecting Moraxella antibodies  
XX  
XX SQ Sequence 702 AA;  
Query Match 100.0%; Score 74; DB 2; Length 702;  
Best Local Similarity 100.0%; Pred. No. 5.2e-05;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MGYGWSKINLHN 14  
| | | | | | | | | | | | | |  
DB 100 MGYGWSKINLHN 113  
| | | | | | | | | | | | | |

```

XX Transferrin binding protein; tbpB; immunogen; vaccine; protection;
KW otitis media; antibody; diagnosis; therapy; carrier; gene isolation.
XX
OS Moraxella catarrhalis.
XX
PN WO9732980-A1.
XX
PD 12-SEP-1997.
XX
PF 07-MAR-1997; 97WO-CA000163.
XX
PR 08-MAR-1996; 96US-00613009.
PR 03-JAN-1997; 97US-00778570.
XX
PA (CONN-) CONNAUGHT LAB LTD.
XX
XX Myers LE, Schryvers AB, Harkness RE, Loosmore SM, Du R, Yang Y;
PI Klein MH;
XX
XX WPI; 1997-457533/42.
DR N-PSDB; AAT95251.
XX
XX DNA encoding transferrin receptor of a Moraxella strain - also proteins,
PT useful in vaccines, as diagnostic agents and in the production of
PT antibodies.
XX
XX Claim 6; Fig 27; 162pp; English.
XX
XX The present sequence is the Moraxella catarrhalis RI transferrin binding
CC protein tbpB, which can be used as an immunogen, e.g. in vaccines to
CC protect against diseases caused by M. catarrhalis (specifically otitis
CC media), or to raise antibodies for diagnosis and therapy. It can also be
CC used as a carrier for other antigenic determinants, e.g. of bacteria
CC containing polysaccharide antigens or abnormal polysaccharides present on
CC tumour cells, particularly to make conjugate vaccines. The tbpB DNA can
CC be used to detect nucleic acid encoding transferrin receptor protein,
CC e.g. for diagnosis or gene isolation, by usual hybridisation assays
XX
XX Sequence 714 AA;
SQ
    Query Match      85.1%; Score 63; DB 2; Length 714;
    Best Local Similarity 85.7%; Pred. No. 0.0067;
    Matches 12; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      1 MGYGMALSKINLHN 14
Db      100 MGYGMALSKINLYD 113
      |||||:|||||:
RESULT 8
AEM69725
ID ABM69725 standard; protein; 190 AA.
XX
AC ABM69725;
XX
XX 20-NOV-2003 (first entry)
DT
XX
XX Photorhabdus luminescens protein sequence #2822.
DE
XX
XX Antibacterial; fungicide; insecticide; polymorphism; genetic analysis;
KW detection; food; gene expression; plant; animal; microorganism; toxin;
KW antibiotic; biopesticide; virulence factor; disease model; plague;
KW whooping cough.
XX
XX Photorhabdus luminescens.
OS
XX
XX WO200294867-A2.
PN
XX
XX 28-NOV-2002.
PD
XX
XX 07-FEB-2002; 2002WO-IB003040.
PF
XX

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XX RESULT 6
XX AAY43378
ID AAY43378 standard; protein; 706 AA.
XX
AC AAY43378;
XX
XX 26-JAN-2000 (first entry)
DT
XX
XX M. catarrhalis strain M35 tbp2 protein.
DE
XX
XX TbpB gene; Tbp2; transferrin binding protein; diagnosis; otitis media;
KW genetic immunisation; Moraxella infection; antigen; vaccine; detection;
KW antitumour antibody production; therapy.
XX
XX Moraxella catarrhalis.
OS
XX
XX WO9952947-A2.
PN
XX
XX 21-OCT-1999.
PD
XX
XX 12-APR-1999; 99WO-CA000307.
PF
XX
XX 14-APR-1998; 98US-00059584.
PR
XX
XX (CONN-) CONNAUGHT LAB LTD.
PA
XX
XX Myers LE, Schryvers AB, Harkness RE, Loosmore SM, Du R, Yang Y;
PI Klein MH;
XX
XX WPI; 1999-620376/53.
DR N-PSDB; AAZ31946.
XX
XX Nucleic acid encoding transferrin binding protein 2 of Moraxella
PT catarrhalis, useful for diagnostics, immunization and recombinant protein
PT production.
XX
XX Claim 7; Fig 2; 114pp; English.
XX
XX This sequence is the Moraxella catarrhalis strain M35 transferrin binding
CC protein (tbp2) of the invention. The DNA sequence is also referred to as
CC the TbpB gene. The TbpB gene is used to produce recombinant Tbp2; for
CC identification or diagnosis of Moraxella, or for cloning related species,
CC using hybridisation assays; and for genetic immunisation against
CC Moraxella infections, e.g. otitis media. The Tbp2 proteins are useful as
CC antigens, either in vaccines (including components of conjugate vaccines
CC that contain antigens from other bacteria or from tumours, in which case
CC they elicit production of antitumour antibodies that may be coupled to
CC chemotherapeutic agents or biologically active agents) or to raise
CC antibodies (for use as diagnostic reagents and for treating Moraxella
CC infections), also for detecting Moraxella antibodies
XX
XX Sequence 706 AA;
SQ
    Query Match      87.8%; Score 65; DB 2; Length 706;
    Best Local Similarity 92.3%; Pred. No. 0.0028;
    Matches 12; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 MGYGMALSKINLH 13
Db      100 MGYGMALSKINLH 112
      |||||:|||||:
RESULT 7
AAW35316
ID AAW35316 standard; protein; 714 AA.
XX
AC AAW35316;
XX
XX 14-APR-1998 (first entry)
DT
XX
XX M. catarrhalis RI transferrin binding protein tbpB.
DE

```





CC tubulointerstitial nephritis), multiple sclerosis, idiopathic  
 CC demyelinating polyneuropathy, Guillain-Barre syndrome, chronic  
 CC inflammatory demyelinating polyneuropathy, infectious hepatitis  
 CC (hepatitis A, B, C, D, E and other non-hepatotropic viruses), autoimmune  
 CC chronic active hepatitis, primary biliary cirrhosis, granulomatous  
 CC hepatitis, and sclerosing cholangitis, inflammatory bowel disease  
 CC (ulcerative colitis; Crohn's disease), gluten-sensitive enteropathy, and  
 CC Whipple's disease. Autoimmune or immune-mediated skin diseases including  
 CC bullous skin diseases, erythema multiforme, contact dermatitis, psoriasis,  
 CC asthma, allergic rhinitis, atopic dermatitis, food hypersensitivity,  
 CC urticaria, eosinophilic pneumonia, idiopathic pulmonary fibrosis,  
 CC hypersensitivity pneumonitis, and transplantation associated diseases  
 CC (graft rejection, and graft-versus-host-disease). (I), its (ant)agonists  
 CC or fragment can also be used as an adjuvant in treatment of tumors  
 CC Antibodies against (I) can also be used for diagnosing such diseases.  
 CC This sequence represents a protein derived from human PRO266 clone UN0233  
 CC CDNA which is described in the method of the invention  
 XX  
 SQ Sequence 696 AA;

Query Match 56.8%; Score 42; DB 2; Length 696;  
 Best Local Similarity 63.6%; Pred. No. 67;  
 Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 4 GMAJSKINLHN 14  
 |::|||::|||  
 Db 493 GVSLSKLSLHN 503

## RESULT 12

AAV13359  
 ID AAV13359 standard; protein; 696 AA.

XX AAV13359;

XX 25-JUN-1999 (first entry)

DE Amino acid sequence of protein PRO266.

XX Secreted protein; transmembrane protein; human; enterocolitis;

KW Zollinger-Ellison syndrome; gastrointestinal ulceration;

KW congenital microvillus atrophy; skin disease; cell growth;

KW abnormal keratinocyte differentiation; psoriasis; epithelial cancer;

KW Parkinson's disease; Alzheimer's disease; ALS; neuropathy; fibromodulin;

KW dermal scarring; Usher Syndrome; Atrophia areata; anti-thrombotic;

XX wound healing; tissue repair.

OS Homo sapiens.

XX WO9914328-A2.

XX 25-MAR-1999.

XX 16-SEP-1998; 98WO-US019330.

XX 17-SEP-1997; 97US-0059113P.

PR 17-SEP-1997; 97US-0059115P.

PR 17-SEP-1997; 97US-0059117P.

PR 17-SEP-1997; 97US-0059119P.

PR 17-SEP-1997; 97US-0059121P.

PR 17-SEP-1997; 97US-0059122P.

PR 17-SEP-1997; 97US-0059184P.

PR 18-SEP-1997; 97US-0059263P.

PR 18-SEP-1997; 97US-0059266P.

PR 15-OCT-1997; 97US-0062125P.

PR 17-OCT-1997; 97US-0062285P.

PR 17-OCT-1997; 97US-0062287P.

PR 21-OCT-1997; 97US-0063486P.

PR 24-OCT-1997; 97US-0062816P.

PR 24-OCT-1997; 97US-0063045P.

PR 24-OCT-1997; 97US-0063120P.

PR 24-OCT-1997; 97US-0063121P.

PR 24-OCT-1997; 97US-0063127P.  
 PR 24-OCT-1997; 97US-0063128P.  
 PR 27-OCT-1997; 97US-0063327P.  
 PR 27-OCT-1997; 97US-0063329P.  
 PR 28-OCT-1997; 97US-00633541P.  
 PR 28-OCT-1997; 97US-00633542P.  
 PR 28-OCT-1997; 97US-00633544P.  
 PR 28-OCT-1997; 97US-00633549P.  
 PR 28-OCT-1997; 97US-00633550P.  
 PR 28-OCT-1997; 97US-00633564P.  
 PR 29-OCT-1997; 97US-0063435P.  
 PR 29-OCT-1997; 97US-0063704P.  
 PR 29-OCT-1997; 97US-0063732P.  
 PR 29-OCT-1997; 97US-0063734P.  
 PR 29-OCT-1997; 97US-0063735P.  
 PR 29-OCT-1997; 97US-0063718P.  
 PR 29-OCT-1997; 97US-0064215P.  
 PR 31-OCT-1997; 97US-0063870P.  
 PR 31-OCT-1997; 97US-0064103P.  
 PR 03-NOV-1997; 97US-0064248P.  
 PR 07-NOV-1997; 97US-0064809P.  
 PR 12-NOV-1997; 97US-0065186P.  
 PR 17-NOV-1997; 97US-0065846P.  
 PR 18-NOV-1997; 97US-0065933P.  
 PR 21-NOV-1997; 97US-0066120P.  
 PR 21-NOV-1997; 97US-0066364P.  
 PR 24-NOV-1997; 97US-0066453P.  
 PR 24-NOV-1997; 97US-0066466P.  
 PR 24-NOV-1997; 97US-0066511P.  
 PR 24-NOV-1997; 97US-0066770P.  
 PR 24-NOV-1997; 97US-0066772P.  
 PR 25-NOV-1997; 97US-0066840P.  
 XX  
 PA (GETH ) GENENTECH INC.

XX

PI Wood WI, Gurney AL, Goddard A, Pennica D, Chen J, Yuan J;

XX WPI; 1999-229533/19.

DR N-FSDB; AAX52230.

DR New isolated human genes and polypeptides used in, e.g. treatment of  
 gastrointestinal ulceration.

XX Claim 12; Fig 34; 320pp; English.

CC AAV13344-403 represent secreted and transmembrane human proteins. The  
 CC cDNA sequences are obtained from cDNA libraries, prepared from fetal  
 CC lung, fetal kidney, fetal brain, fetal liver and fetal retina. The  
 CC encoded polypeptides have specific uses based on their homology to known  
 CC polypeptides, e.g. PRO211 and PRO217 can be used for disorders associated  
 CC with the preservation and maintenance of gastrointestinal mucosa and the  
 CC repair of acute and chronic mucosal lesions (e.g. enterocolitis,  
 CC microvillus atrophy), skin diseases associated with abnormal keratinocyte  
 CC differentiation (e.g. psoriasis, epithelial cancers such as lung squamous  
 CC cell carcinoma of the vulva and gliomas), potent effects on cell growth  
 CC and development, diseases related to growth or survival of nerve cells  
 CC including Parkinson's disease, Alzheimer's disease, ALS, neuropathies or  
 CC cancer. PRO265 can be used as for fibromodulin, e.g. for reducing dermal  
 CC scarring. PRO264 can be used as a target for anti-tumor drugs. PRO333 may  
 CC be used in the treatment of Usher Syndrome or Atrophia areata; PRO269 can  
 CC be used as an anti-thrombotic agent; PRO287 polypeptides and portions may  
 CC have therapeutic applications in wound healing and tissue repair; PRO317  
 CC can be used for treating problems of the kidney, uterus, endometrium,  
 CC blood vessels, or related tissue, e.g. in the heart of genital tract

XX Sequence 696 AA;

Query Match 56.8%; Score 42; DB 2; Length 696;  
 Best Local Similarity 63.6%; Pred. No. 67;  
 Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 4 GMAJSKINLHN 14

Db	493	GVSLSKSLH 503	:	
RESULT 13				
AAAY70671				
ID	AAAY70671	standard, protein; 696 AA.		
XX	AC	AAAY70671;		
XX	DT	18-JUL-2000 (first entry)		
XX	XX	Human PRO266 protein.		
XX	DE			
XX	KW	PRO266; UNQ233; dermatological; immunosuppressive; antiinflammatory;		
KW	KW	immunostimulant; antiaethmatic; antirheumatic; antiarthritic; virucide;		
KW	KW	antiallergic; haemostatic; hepatotropic; antidiabetic; antianaemic;		
KW	KW	nephrotropic; neuroprotective; anticoagulant; immunological disorder;		
KW	KW	lung; pneumonia; skin; psoriasis; kidney; glomerulonephritis; arthritis;		
KW	KW	spondyloarthropathy; SLE; systemic lupus erythematosus; scleroderma;		
KW	KW	idiopathic inflammatory myopathy; anaemia; thrombocytopenia; diabetes;		
KW	KW	thyroiditis; Grave's disease; demyelinating disease; multiple sclerosis;		
KW	KW	Crohn's disease; hepatobiliary disease; hepatitis; asthma; human;		
KW	KW	graft-versus-host-disease.		
XX	XX			
OS	Homo sapiens.			
XX	Key	Location/Qualifiers		
FH	Modified-site	17. .23		
FT		/note= "N-myristoylation site"		
FT	Modified-site	18. .22		
FT		/note= "N-glycosylation site"		
FT	Modified-site	30. .34		
FT		/note= "Casein Kinase II phosphorylation site"		
FT	Modified-site	67. .73		
FT		/note= "N-myristoylation site"		
FT	Modified-site	100. .106		
FT		/note= "N-myristoylation site"		
FT	Modified-site	122. .126		
FT		/note= "cAMP and cGMP-dependent protein kinase phosphorylation site"		
FT	Modified-site	180. .184		
FT		/note= "Casein Kinase II phosphorylation site"		
FT	Modified-site	222. .226		
FT		/note= "Casein Kinase II phosphorylation site"		
FT	Modified-site	253. .257		
FT		/note= "N-glycosylation site"		
FT	Modified-site	256. .260		
FT		/note= "Casein Kinase II phosphorylation site"		
FT	Modified-site	302. .308		
FT		/note= "N-myristoylation site"		
FT	Modified-site	328. .334		
FT		/note= "N-myristoylation site"		
FT	Modified-site	337. .348		
FT		/note= "Prokaryotic membrane lipoprotein lipid attachment site"		
FT	Modified-site	343. .349		
FT		/note= "N-myristoylation site"		
FT	Modified-site	354. .360		
FT		/note= "N-myristoylation site"		
FT	Modified-site	363. .367		
FT		/note= "N-glycosylation site"		
FT	Modified-site	368. .370		
FT		/note= "Casein Kinase II phosphorylation site"		
FT	Modified-site	416. .420		
FT		/note= "N-glycosylation site"		
FT	Modified-site	465. .471		
FT		/note= "N-myristoylation site"		
FT	Modified-site	493. .499		
FT		/note= "N-myristoylation site"		
FT	Modified-site	573. .577		
FT		/note= "Casein Kinase II phosphorylation site"		
FT	Modified-site	595. .599		
FT				
FT	Modified-site	598. .604	/note= "N-glycosylation site"	
FT		/note= "N-myristoylation site"		
FT	Modified-site	603. .609	/note= "N-myristoylation site"	
FT		608. .612	/note= "Casein Kinase II phosphorylation site"	
FT	Modified-site	646. .650	/note= "cAMP and cGMP-dependent protein kinase phosphorylation site"	
FT		655. .659	/note= "N-glycosylation site"	
FT	Modified-site	657. .661	/note= "Casein Kinase II phosphorylation site"	
FT		666. .670	/note= "Casein Kinase II phosphorylation site"	
FT	Modified-site	693. .697	/note= "Casein Kinase II phosphorylation site"	
XX	WO200015797-A2.			
XX	23-MAR-2000.			
XX	15-SEP-1999;	99WO-US021547.		
XX	17-SEP-1998;	98US-0100958P.		
PR	17-SEP-1998;	98WO-US019437.		
XX	(GETH ) GENENTECH INC.			
XX	Fong S, Goddard A, Gurney AL, Tumas D, Wood WI;			
XX	WPI; 2000-271435/23.			
DR	N-PSDB; AAZ52205.			
XX	Composition for treatment and diagnosis of immune related diseases e.g.			
PT	Grave's disease comprises a PRO245, PRO217, PRO301, PRO266, PRO335,			
PT	PRO331 or PRO326 polypeptide or its agonists or antagonists (preferably			
PT	antibodies).			
XX	Example 1; Fig 10; 201pp; English.			
XX	The present sequence is the human protein PRO266, encoded by UNQ233 cDNA,			
CC	designated as clone DNA37150. It is isolated from human foetal brain			
CC	tissue. PRO266 has significant homology to a SLIT protein, indicating			
CC	that it could be a leucine rich repeat protein. It enhances or suppresses			
CC	the infiltration of inflammatory cells into tissues, proliferation of T-			
CC	lymphocytes and modulates the immune response. This sequence is useful			
CC	for treatment of immune related disorders, like SLE, rheumatoid/juvenile			
CC	arthritis, spondyloarthropathy, systemic sclerosis (scleroderma),			
CC	idiopathic inflammatory myopathies such as dermatomyositis, Sjogren's			
CC	anaemia, systemic vasculitis, sarcoidosis, autoimmune haemolytic			
CC	syndrome, immune-mediated renal disease e.g. glomerulonephritis,			
CC	meilitus, immune-mediated disease e.g. Grave's disease, diabetes			
CC	demyelinating diseases such as multiple sclerosis and Guillain-Barre			
CC	syndrome, hepatobiliary and fibrotic lung diseases such as inflammatory			
CC	cirrhosis, inflammatory diseases like hepatitis and primary biliary			
CC	bowel disease (e.g. Crohn's disease), autoimmune or immune-mediated skin			
CC	diseases such as psoriasis, allergies like asthma, immunological diseases			
CC	of the lungs such as eosinophilic pneumonia and transplantation			
CC	associated diseases such as graft-versus-host-disease			
XX	Sequence 696 AA;			
SQ				
Query Match	56.8%;	Score 42;	DB 3;	Length 696;
Best Local Similarity	83.6%;	Fred. No. 67;		
Matches	7;	Conservative	4;	Mismatches
			0;	Indels
			0;	Gaps
			0;	
QY	4	GMALSKLH 14		
DB	493	GVSLSKSLH 503		

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RESULT 14
ADC78411
ID  ADC78411 standard; protein; 696 AA.
XX
XX
AC  ADC78411;
XX
XX
DT  01-JAN-2004 (first entry)
XX
DE  Human PRO266 protein.
XX
KW  antiinflammatory; antiulcer; cytostatic; antipsoriatic; antiparkinsonian;
KW  neurotropic; neuroprotective; vasotropic; chemotactic; angiogenic;
KW  neurotrophic; osteopathic; antiaesthetic; antiarthritic; antirheumatic;
KW  antiarteriosclerotic; cardiant; antidiabetic; cerebroprotective;
KW  thrombolytic; immunomodulator; enterocolitis; Zollinger-Ellison syndrome;
KW  gastrointestinal ulceration; psoriasis; cancer; Parkinson's disease;
KW  Alzheimer's; ALS; neuropathy; dermal scarring; wound healing;
KW  nerve repair; thrombosis; bone; cartilage formation; angiogenesis;
KW  asthma; rheumatoid arthritis; multiple sclerosis; inflammatory disorder;
KW  atherosclerosis; cardiac injury; infertility; premature aging; AIDS;
KW  diabetes; stroke; gene therapy; transgenic; PRO; human.
XX
OS  Homo sapiens.
XX
XX  WO200015796-A2.
XX
XX  23-MAR-2000.
XX
XX  15-SEP-1999; 99WO-US021090.
XX
XX  16-SEP-1998; 98WO-US019330.
XX
XX  (GETH ) GENENTECH INC.
XX
XX  Chen J, Goddard A, Gurney AL, Hillan K, Pennica D, Wood WI;
XX  Yuan J;
XX
XX  WPI; 2000-271434/23.
XX
XX  N-PSDB; ADC78410.
XX
XX  Novel nucleic acids encoding secreted and transmembrane polypeptides with
XX  homology, e.g. to growth and cancer-associated antigens.
XX
XX  Claim 12; SEQ ID NO 91; 355pp; English.
XX
XX  The invention relates to a novel nucleic acid encoding a PRO polypeptide.
XX  The polypeptides and polynucleotides of the invention may be useful as
XX  research tools and as therapeutics for treating enterocolitis, Zollinger-
XX  Ellison syndrome, gastrointestinal ulceration, psoriasis, cancer,
XX  Parkinson's disease, Alzheimer's disease, ALS, neuropathies, dermal
XX  scarring and wound healing, nerve repair, thrombosis, bone and/or
XX  cartilage formation, angiogenesis, asthma, rheumatoid arthritis, multiple
XX  sclerosis, inflammatory disorders, atherosclerosis, cardiac injury,
XX  infertility, premature aging, AIDS, diabetes complications and stroke.
XX  The molecules may also be utilised during gene therapy procedures and
XX  transgenic animal production. The current sequence is that of the human
XX  PRO protein of the invention.
XX
XX  Sequence 696 AA;
XX
XX  Query Match 56.8%; Score 42; DB 3; Length 696;
XX  Best Local Similarity 63.6%; Pred. No. 67;
XX  Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
XX
XX  QY 4 GMAISKINLHN 14
XX  Db 493 GWSLSKLSLHN 503
XX
RESULT 15
AAB80227
ID  AAB80227 standard; protein; 696 AA.
XX
XX
AC  AAB80227;
XX
XX  24-APR-2001 (first entry)
XX
DE  Human PRO266 protein.
XX
XX  Human; PRO; dermatological; antipsoriatic; cytostatic; antiinflammatory;
XX  antiparkinsonian neurotropic; neuroprotective; vulnerary; cardiant;
XX  antiangiogenic; vasotropic; antiaesthetic; antirheumatic; cancer;
XX  antiarthritic; antinfertility; antidiabetic; antiviral; diabetes;
XX  ophthalmological; gene therapy; skin disease; gastrointestinal disorder;
XX  ischaemia; inflammation.
XX
XX  Homo sapiens.
XX
XX  WO2000104311-A1.
XX
XX  18-JAN-2001.
XX
XX  22-FEB-2000; 2000WO-US004414.
XX
XX  07-JUL-1999; 99US-0143048P.
XX  26-JUL-1999; 99US-0145698P.
XX  28-JUL-1999; 99US-0146222P.
XX  08-SEP-1999; 99WO-US020594.
XX  13-SEP-1999; 99WO-US020944.
XX  15-SEP-1999; 99WO-US021090.
XX  15-SEP-1999; 99WO-US021547.
XX  05-OCT-1999; 99WO-US023089.
XX  29-NOV-1999; 99WO-US028214.
XX  30-NOV-1999; 99WO-US028313.
XX  02-DEC-1999; 99WO-US028564.
XX  02-DEC-1999; 99WO-US028565.
XX  16-DEC-1999; 99WO-US030095.
XX  20-DEC-1999; 99WO-US030911.
XX  20-DEC-1999; 99WO-US030999.
XX  05-JAN-2000; 2000WO-US000219.
XX
XX  (GETH ) GENENTECH INC.
XX
XX  Ashkenazi AJ, Botstein D, Desnoyers L, Eaton DL, Ferrara N;
XX  Filvaroff E, Fong S, Gao W, Gerber H, Gertitsen ME, Goddard A;
XX  Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ, Kljavin IJ;
XX  Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;
XX  Williams PM, Wood WI;
XX
XX  WPI; 2001-081051/09.
XX  N-PSDB; AAF72388.
XX
XX  Sixty one nucleic acids encoding PRO polypeptides which are useful in the
XX  treatment of skin diseases (e.g. psoriasis), cancers (e.g. lung squamous
XX  cell carcinoma) and neurodegenerative diseases (e.g. Alzheimer's
XX  disease).
XX
XX  Claim 1; Fig 34; 393pp; English.
XX
XX  The present sequence is one of sixty one novel secreted and transmembrane
XX  PRO polypeptides. The PRO polypeptides are useful for treating skin
XX  diseases (e.g. psoriasis), cancers (e.g. lung squamous cell carcinoma),
XX  gastrointestinal disorders (e.g. enterocolitis), neurodegenerative
XX  diseases (e.g. Alzheimer's disease, Parkinson's disease), wound repair,
XX  cardiovascular disorders (e.g. endometrial bleeding angiogenesis),
XX  ischaemias such as coronary ischaemia, atherosclerosis), inflammatory
XX  disorders (e.g. asthma, rheumatoid arthritis, multiple sclerosis),
XX  infertility, AIDS and diabetes and retinal disorders such as retinitis
XX  pigmentosum. The PRO nucleic acids have applications in molecular
XX  biology, including use as hybridization probes, and in chromosome and
XX  gene mapping
XX
XX  Sequence 696 AA;
XX
XX  Query Match 56.8%; Score 42; DB 4; Length 696;
XX  Best Local Similarity 63.6%; Pred. No. 67;

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Matches	7;	Conservative	4;	Mismatches	0;	Indels	0;	Gaps	0;
QY	4	GNALSKINLHN 14							
Db	493	GVSLSKLSLHN 503							
RESULT 16									
AAU00824									
ID	AAU00824	standard; protein; 696 AA.							
XX	AAU00824;								
XX	04-JUL-2001	(first entry)							
XX	Human immune response protein PRO266 (UNQ233).								
XX	Human; PRO266; UNQ233; immune response; osteoarthritis;								
KW	systemic lupus erythematosus; rheumatoid arthritis; systemic sclerosis;								
KW	juvenile chronic arthritis; spondyloarthropathy; Sjogren's syndrome;								
KW	idiopathic inflammatory myopathy; polymyositis; systemic vasculitis;								
KW	sarcoidosis; autoimmune haemolytic anaemia; immune pancytopenia;								
KW	autoimmune thrombocytopaenia; idiopathic thrombocytopaenic purpura;								
KW	thyroiditis; Grave's disease; Hashimoto's thyroiditis; diabetes mellitus;								
KW	glomerulonephritis; demyelinating disease; multiple sclerosis;								
KW	Guillain-Barre syndrome; hepatobiliary disease;								
KW	chronic inflammatory demyelinating polyneuropathy; infectious hepatitis;								
KW	auto immune chronic active hepatitis; primary biliary cirrhosis;								
KW	granulomatous hepatitis; sclerosing cholangitis; ulcerative colitis;								
KW	inflammatory bowel disease; Crohn's disease; Whipple's disease;								
KW	erythraemia multiforme; psoriasis; asthma; allergic rhinitis; urticaria;								
KW	food hypersensitivity; eosinophilic pneumonia; graft rejection;								
KW	idiopathic pulmonary fibrosis; graft-versus-host-disease; immunogen;								
KW	antibody.								
XX	Homo sapiens.								
OS									
XX									
PH	Key	Location/Qualifiers							
FT	Peptide	1..15							
FT	Protein	/label= Signal_peptide							
FT		16..696							
FT		/label= Mature_PRO266							
FT		17..23							
FT	Modified-site	/note= "Glycine at 17 is N-myristoylated"							
FT		18..22							
FT	Modified-site	/note= "Aen is N-glycosylated"							
FT		67..73							
FT	Modified-site	/note= "Glycine is N-myristoylated"							
FT		100..106							
FT	Modified-site	/note= "Glycine at 100 is N-myristoylated"							
FT		122..126							
FT	Region	/label= Phosphorylation site							
FT		/note= "cAMP/cGMP dependent protein kinase phosphorylation site"							
FT		253..257							
FT	Modified-site	/note= "Aen is N-glycosylated"							
FT		302..308							
FT	Modified-site	/note= "Glycine at 302 is N-myristoylated"							
FT		328..334							
FT	Modified-site	/note= "Glycine is N-myristoylated"							
FT		337..348							
FT	Region	/label= Lipid attachment site							
FT		/note= "prokaryotic membrane lipoprotein attachment site"							
FT		343..349							
FT	Modified-site	/note= "Glycine at 343 is N-myristoylated"							
FT		354..360							
FT	Modified-site	/note= "Glycine is N-myristoylated"							
FT		363..367							
FT	Modified-site	/note= "Aen is N-glycosylated"							
FT		416..420							
FT	Modified-site	/note= "Aen is N-glycosylated"							
FT		465..471							
FT	Modified-site	/note= "Glycine is N-myristoylated"							

FT	Modified-site	493..499							
FT		/note= "Glycine is N-myristoylated"							
FT	Modified-site	595..599							
FT		/note= "Aen is N-glycosylated"							
FT	Modified-site	598..604							
FT		/note= "Glycine at 598 is N-myristoylated"							
FT	Modified-site	603..609							
FT		/note= "Glycine is N-myristoylated"							
FT	Domain	619..639							
FT		/label= Transmembrane_domain							
FT	Modified-site	655..659							
FT		/note= "Aen is N-glycosylated"							
XX		WO200119991-A1.							
PN		22-MAR-2001.							
PD									
XX		20-MAR-2000; 2000WO-US007377.							
XX		15-SEP-1999; 99WO-US021547.							
XX		(GETH ) GENENTECH INC.							
XX		Pong S, Goddard A, Gurney AL, Hillan KJ, Tumas D, Wood WI;							
PI		WPI; 2001-226823/23.							
DR		N-PSDB; AAS00160.							
XX		Composition for diagnosing and treating immune related diseases, e.g.							
XX		rheumatoid arthritis and diabetes mellitus, comprises a PRO polypeptide,							
PT		agonist, antagonist or fragment.							
PT									
XX		Claim 31; Fig 8; 138pp; English.							
XX									
CC		The sequence represents Human PRO266 (UNQ233), a protein involved in the							
CC		immune response. PRO polypeptides, and (ant)agonists to them, are used in							
CC		compositions for modulating infiltration of inflammatory cells into a							
CC		tissue, modulating an immune response and modulating proliferation of T-							
CC		lymphocytes in response to an antigen. Immune related diseases can be							
CC		treated with the compositions, such as, systemic lupus erythematosus,							
CC		rheumatoid arthritis, osteoarthritis, juvenile chronic arthritis,							
CC		spondyloarthropathies, systemic sclerosis, Sjogren's syndrome, systemic vasculitis,							
CC		myopathies (e.g. polymyositis), autoimmune haemolytic anaemia (e.g. immune pancytopenia),							
CC		sarcoidosis, autoimmune thrombocytopaenia (e.g. idiopathic thrombocytopaenic purpura),							
CC		thyroiditis (e.g. Grave's disease, Hashimoto's thyroiditis), diabetes							
CC		mellitus, immune-mediated renal disease (e.g. glomerulonephritis),							
CC		demylinating diseases of the central and peripheral nervous systems e.g.							
CC		multiple sclerosis or Guillain-Barre syndrome, and chronic inflammatory							
CC		demyelinating polyneuropathy, hepatobiliary diseases such as infectious							
CC		hepatitis (hepatitis A, B, C, D, E and other non-hepatotropic viruses),							
CC		auto immune chronic active hepatitis, primary biliary cirrhosis,							
CC		granulomatous hepatitis, and sclerosing cholangitis, inflammatory bowel							
CC		disease (ulcerative colitis, Crohn's disease and Whipple's disease),							
CC		autoimmune or immune-mediated skin diseases (e.g. erythema multiforme							
CC		and psoriasis), asthma, allergic rhinitis, urticaria, food							
CC		hypersensitivity, immunologic diseases of the lung such as eosinophilic							
CC		pneumonias, idiopathic pulmonary fibrosis, transplantation associated							
CC		diseases including graft-versus-host-disease and graft rejection. PRO							
CC		polypeptides can be used to diagnose immune related diseases, to identify							
CC		inhibitors, and to stimulate the proliferation of T lymphocytes. Anti-PRO							
CC		antibodies can be used to detect PRO and in diagnosis. PRO polypeptides,							
CC		antibodies and (ant)agonists can be used in rational drug design							
XX									
SQ		Sequence 696 AA;							
		Query Match 56.8%; Score 42; DB 4; Length 696;							
		Best Local Similarity 63.6%; Pred. No. 67;							
		Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;							
QY		4 GMALSKINLHN 14							
		: : : :							
Db		493 GVSLSKLSLHN 503							



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XX Isolated , secretory and transmembrane PRO polypeptide used to detect
PT other PRO polypeptides, link bioactive molecules to cells expressing PRO
PT polypeptides, and detect the presence of mammalian tumors e.g. lung,
PT breast, prostate, cervical.
XX Claim 12; Fig 354; 813pp; English.
XX AAU12172-AAU12446 represent novel human secretory and transmembrane PRO
CC polypeptides. The PRO polypeptides are useful to detect other PRO
CC polypeptides, to link bioactive molecules to cells expressing PRO
CC polypeptides, to modulate biological activities of cells expressing PRO
CC polypeptides, and to detect the presence of mammalian lung, colon,
CC breast, prostate, rectal, cervical or liver tumours by comparing PRO
CC polypeptide expression in a cell sample to that in a control sample. Some
CC of the 275 sequences are also useful to stimulate the release of tumour
CC necrosis factor-alpha (TNF-alpha) from human blood, the proliferation or
CC pericyte cells, the release of proteoglycans from cartilage, the
CC proliferation of inner ear utricular supporting cells or of T-
CC lymphocytes, the release of a cytokine from peripheral blood monocytes
CC (PBMCs), or the proliferation of endothelial cells. Some of the PRO
CC polypeptides may modulate glucose or free fatty acid uptake by skeletal
CC muscle cells or by adipocytes; or inhibit binding of A-peptide to factor
CC VIIA. The PRO polypeptides can be used in assays to identify molecules
CC involved in binding interactions. The polynucleotides encoding PRO
CC polypeptides can be used to generate probes, antisense RNA/DNA,
CC transgenic or knock out animals and can be used in gene therapy
XX SQ Sequence 696 AA;

Query Match 56.8%; Score 42; DB 4; Length 696;
Best Local Similarity 63.6%; Pred. No. 67;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GMALSKINLHN 14
|:|:|:|:|
Db 493 GVSLSKLSLHN 503

RESULT 18
AAB50905
ID AAB50905 standard; protein; 696 AA.
AC AAB50905;
DT 21-MAR-2001 (first entry)
DE Human PRO266 protein.
XX Human; PRO; antiinflammatory; dermatological; antiarthritic;
XX antirheumatic; cardiac; antianaemic; immunosuppressive; antithyroid;
XX antidiabetic; nootropic; neuroprotective; hepatotropic; virucide;
XX antiallergic; antiasthmatic; immune related disorder;
XX hepatobiliary disease; autoimmune disease; allergy.
XX Homo sapiens.
XX WO200073452-A2.
PN 07-DEC-2000.
XX 02-JUN-2000; 2000WO-US015264.
XX 02-JUN-1999; 99WO-US012252.
XX 20-JUL-1999; 99US-0144732P.
XX 20-JUL-1999; 99US-0144758P.
XX 28-JUL-1999; 99US-0146222P.
XX 01-SEP-1999; 99WO-US020111.
XX 15-SEP-1999; 99WO-US021090.
XX 15-SEP-1999; 99WO-US021547.
XX 29-OCT-1999; 99US-0162506P.
XX 30-NOV-1999; 99WO-US028313.

AAU12348
ID AAU12348 standard; protein; 696 AA.
AC AAU12348;
DT 24-OCT-2001 (first entry)
DE Human PRO266 polypeptide sequence.
XX Human secretory and transmembrane; PRO; mammalian; cancer; lung; breast;
XX prostate; cervical; tumour necrosis factor-alpha; TNF-alpha; cartilage;
XX ear; proliferation; glucose; free fatty acid; skeletal muscle; adipocyte;
XX A-peptide; factor VIIA; gene therapy.
XX Homo sapiens.
XX WO2000140466-A2.
XX 07-JUN-2001.
XX 01-DEC-2000; 2000WO-US032678.
XX 01-DEC-1999; 99WO-US028301.
XX 01-DEC-1999; 99WO-US028634.
XX 02-DEC-1999; 99WO-US028551.
XX 02-DEC-1999; 99WO-US028564.
XX 02-DEC-1999; 99WO-US028565.
XX 09-DEC-1999; 99US-0170262P.
XX 16-DEC-1999; 99WO-US030095.
XX 20-DEC-1999; 99WO-US030911.
XX 20-DEC-1999; 99WO-US030999.
XX 30-DEC-1999; 99WO-US031243.
XX 30-DEC-1999; 99WO-US031274.
XX 05-JAN-2000; 2000WO-US000219.
XX 06-JAN-2000; 2000WO-US000277.
XX 06-JAN-2000; 2000WO-US000376.
XX 11-FEB-2000; 2000WO-US003565.
XX 18-FEB-2000; 2000WO-US004341.
XX 18-FEB-2000; 2000WO-US004342.
XX 22-FEB-2000; 2000WO-US004414.
XX 24-FEB-2000; 2000WO-US004914.
XX 24-FEB-2000; 2000WO-US005004.
XX 01-MAR-2000; 2000WO-US005601.
XX 02-MAR-2000; 2000WO-US005841.
XX 03-MAR-2000; 2000US-0187202P.
XX 10-MAR-2000; 2000WO-US006319.
XX 15-MAR-2000; 2000WO-US006884.
XX 20-MAR-2000; 2000WO-US007377.
XX 21-MAR-2000; 2000WO-US007532.
XX 30-MAR-2000; 2000WO-US008439.
XX 17-MAY-2000; 2000WO-US013705.
XX 22-MAY-2000; 2000WO-US014042.
XX 30-MAY-2000; 2000WO-US014941.
XX 02-JUN-2000; 2000WO-US015264.
XX 05-JUN-2000; 2000US-0209832P.
XX 28-JUL-2000; 2000WO-US020710.
XX 11-AUG-2000; 2000WO-US022031.
XX 23-AUG-2000; 2000WO-US023522.
XX 24-AUG-2000; 2000WO-US023328.
XX 08-NOV-2000; 2000WO-US030952.
XX 10-NOV-2000; 2000WO-US030873.
XX (GETH ) GENENTECH INC.
XX Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
XX Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
XX Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX WPI; 2001-408281/43.
XX N-PSDB; AAS21420.

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PR 01-DEC-1999; 99WO-US028634.
PR 02-DEC-1999; 99WO-US028551.
PR 03-DEC-1999; 99WO-US028565.
PR 09-DEC-1999; 99US-0170262P.
PR 20-DEC-1999; 99WO-US030911.
PR 06-JAN-2000; 2000WO-US000219.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
PR 03-MAR-2000; 2000US-0187202P.
PR 15-MAR-2000; 2000WO-US006684.
PR 20-MAR-2000; 2000WO-US007377.
PR 21-MAR-2000; 2000WO-US007532.
PR 10-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
XX
XX (GETH ) GENENTECH INC.
XX
XX Ashkenazi AJ, Baker KP, Chan B, Goddard A, Godowski PJ;
PI Gurney AL, Hebert C, Henzel W, Kabakoff RC, Shelton DL, Tumas D;
PI Watanabe CK, Wood WI;
XX
XX WPI; 2001-025253/03.
XX N-PSDB; AAC91464.
XX
XX Thirty three nucleic acids encoding PRO polypeptides which are useful in
PT the diagnosis and treatment of immune related disorders, e.g. systemic
PT lupus erythematosus, rheumatoid arthritis, osteoarthritis, thyroiditis
PT and diabetes mellitus.
XX
XX Claim 58; Fig 8; 218pp; English.
XX
XX The present sequence is one of thirty three novel PRO polypeptides. The
CC PRO polypeptides, anti-PRO antibodies, agonists and antagonists are
CC useful for treating and diagnosing immune related disorders such as
CC systemic lupus erythematosus, rheumatoid arthritis, osteoarthritis,
CC juvenile chronic arthritis, spondyloarthropathies, systemic sclerosis,
CC idiopathic inflammatory myopathies, Sjogren's syndrome, systemic
CC vasculitis, sarcoidosis, autoimmune haemolytic anaemia, autoimmune
CC thrombocytopenia, thyroiditis, diabetes mellitus, immune-mediated renal
CC disease, demyelinating diseases of the central and peripheral nervous
CC systems (such as multiple sclerosis, idiopathic demyelinating
CC polyneuropathy or Guillain-Barre syndrome, and chronic inflammatory
CC infectious, autoimmune chronic active hepatitis, primary biliary
CC cirrhosis, granulomatous hepatitis and sclerosing cholangitis),
CC inflammatory bowel disease, gluten-sensitive enteropathy and Whipple's
CC disease, autoimmune or immune-mediated skin diseases (such as bullous
CC skin diseases, erythema multiforme, contact dermatitis, psoriasis),
CC allergic diseases such as asthma, allergic rhinitis, atopic dermatitis,
CC food hypersensitivity and urticaria), immunological diseases of the lung
CC (such as eosinophilic pneumonias, idiopathic pulmonary fibrosis and
CC hypersensitivity pneumonitis), transplantation associated diseases
CC including graft rejection and graft-versus-host diseases
XX
XX Sequence 696 AA;
XX
Query Match 56.8%; Score 42; DB 4; Length 696;
Best Local Similarity 63.6%; Pred. No. 67;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
QY 4 GVALSKINLHN 14
Db 493 GVSLKSLHN 503

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```

RESULT 19
ABU71605
ID ABU71605 standard; protein; 696 AA.
XX
XX AC ABU71605;
XX
XX 16-JUN-2003 (first entry)
XX
XX Human PRO polypeptide #16.
XX
XX Human; PRO; secreted polypeptide; transmembrane polypeptide;
KW pathological disorder; cardiac insufficiency disorder; protein secretion;
KW pancreas; diabetes; gastrointestinal mucosa; mucosal lesion; psoriasis;
KW skin disease; keratinocyte differentiation; epithelial cancer; tumour;
KW lung squamous cell carcinoma; epidermoid carcinoma; vulva; glioma;
KW cystostatic; cardiant; endocrine; antidiabetic; gastrointestinal;
KW antiulcer; dermatological; vulnerary.
XX
XX Homo sapiens.
XX
XX US2002146709-A1.
XX
XX 10-OCT-2002.
XX
XX 18-JUL-2001; 2001US-00909088.
XX
XX 17-SEP-1997; 97US-0059113P.
XX 17-SEP-1997; 97US-0059115P.
XX 17-SEP-1997; 97US-0059117P.
XX 17-SEP-1997; 97US-0059119P.
XX 17-SEP-1997; 97US-0059121P.
XX 17-SEP-1997; 97US-0059122P.
XX 17-SEP-1997; 97US-0059184P.
XX 18-SEP-1997; 97US-0059263P.
XX 18-SEP-1997; 97US-0059266P.
XX 15-OCT-1997; 97US-0062125P.
XX 17-OCT-1997; 97US-0062285P.
XX 17-OCT-1997; 97US-0062287P.
XX 21-OCT-1997; 97US-0063486P.
XX 24-OCT-1997; 97US-0062814P.
XX 24-OCT-1997; 97US-0062816P.
XX 24-OCT-1997; 97US-0063045P.
XX 24-OCT-1997; 97US-0063120P.
XX 24-OCT-1997; 97US-0063121P.
XX 24-OCT-1997; 97US-0063127P.
XX 27-OCT-1997; 97US-0063327P.
XX 27-OCT-1997; 97US-0063329P.
XX 28-OCT-1997; 97US-0063541P.
XX 28-OCT-1997; 97US-0063542P.
XX 28-OCT-1997; 97US-0063544P.
XX 28-OCT-1997; 97US-0063549P.
XX 28-OCT-1997; 97US-0063550P.
XX 29-OCT-1997; 97US-0063564P.
XX 29-OCT-1997; 97US-0063435P.
XX 29-OCT-1997; 97US-0063704P.
XX 29-OCT-1997; 97US-0063732P.
XX 29-OCT-1997; 97US-0063734P.
XX 29-OCT-1997; 97US-0063735P.
XX 29-OCT-1997; 97US-0064738P.
XX 29-OCT-1997; 97US-0064215P.
XX 31-OCT-1997; 97US-0063870P.
XX 31-OCT-1997; 97US-0064103P.
XX 03-NOV-1997; 97US-0064248P.
XX 07-NOV-1997; 97US-0064809P.
XX 12-NOV-1997; 97US-0065186P.
XX 17-NOV-1997; 97US-0065846P.
XX 18-NOV-1997; 97US-0065693P.
XX 21-NOV-1997; 97US-0066120P.
XX 21-NOV-1997; 97US-0066364P.
XX 24-NOV-1997; 97US-0066453P.
XX 24-NOV-1997; 97US-0066466P.
XX 24-NOV-1997; 97US-0066511P.

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PR 24-NOV-1997; 97US-0066770P.  
 PR 24-NOV-1997; 97US-0066772P.  
 PR 10-SEP-1998; 98WO-US018924.  
 PR 14-SEP-1998; 98WO-US019177.  
 PR 16-SEP-1998; 98WO-US019330.  
 PR 17-SEP-1998; 98WO-US019437.  
 PR 01-DEC-1998; 98WO-US025108.  
 PR 08-SEP-1999; 99WO-US020594.  
 PR 13-SEP-1999; 99WO-US020944.  
 PR 15-SEP-1999; 99WO-US021090.  
 PR 15-SEP-1999; 99WO-US021547.  
 PR 05-OCT-1999; 99WO-US023089.  
 PR 29-NOV-1999; 99WO-US028214.  
 PR 30-NOV-1999; 99WO-US028313.  
 PR 01-DEC-1999; 99WO-US028301.  
 PR 02-DEC-1999; 99WO-US028564.  
 PR 02-DEC-1999; 99WO-US028565.  
 PR 16-DEC-1999; 99WO-US030095.  
 PR 20-DEC-1999; 99WO-US030911.  
 PR 20-DEC-1999; 99WO-US030999.  
 PR 05-JAN-2000; 2000WO-US000219.  
 PR 11-FEB-2000; 2000WO-US003365.  
 PR 22-FEB-2000; 2000WO-US004414.  
 PR 24-FEB-2000; 2000WO-US005004.  
 PR 02-MAR-2000; 2000WO-US005841.  
 PR 20-MAR-2000; 2000WO-US007377.  
 PR 30-MAR-2000; 2000WO-US008439.  
 PR 22-MAY-2000; 2000WO-US014042.  
 PR 02-JUN-2000; 2000WO-US015264.  
 PR 28-JUL-2000; 2000WO-US020710.  
 PR 24-AUG-2000; 2000WO-US023328.  
 PR 18-SEP-2000; 2000US-00665350.  
 XX WPI; 2003-328338/31.  
 XX N-PSDB; ACA58970.  
 XX Isolated nucleic acid useful for e.g., treating pathological disorders  
 XX encodes a secreted or transmembrane protein.  
 XX Claim 12; Fig 34; 473pp; English.  
 XX The invention relates to human PRO polypeptides (secreted or  
 XX transmembrane polypeptides) and the polynucleotides encoding them. The  
 XX PRO polypeptides and polynucleotides can be used in treating pathological  
 XX disorders and tumours, in therapeutic treatment of cardiac insufficiency  
 XX disorders and in therapeutic treatment of disorders involving protein  
 XX secretion by the pancreas, including diabetes. They can also be used in  
 XX treating disorders associated with the preservation and maintenance of  
 XX gastrointestinal mucosa and the repair of acute and chronic mucosal  
 XX lesions, and skin diseases associated with abnormal keratinocyte  
 XX differentiation (e.g., psoriasis, epithelial cancers such as lung  
 XX squamous cell carcinoma, epidermoid carcinoma of the vulva and gliomas).  
 XX The sequences can be used as molecular markers for protein  
 XX electrophoresis purposes and can be utilised in protein-protein binding  
 XX assays, biochemical screening assays, immunoassays and cell-based assays.  
 XX This sequence represents a human PRO polypeptide of the invention  
 SQ Sequence 696 AA;  
 Query Match 56.8%; Score 42; DB 6; Length 696;  
 Best Local Similarity 63.6%; Pred. No. 67;  
 Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;  
 4 GWALSKINLN 14  
 :|||:|:|

Db 493 GVSLSKSLHN 503  
 RESULT 20  
 ABO17792  
 ID ABO17792 standard; protein; 696 AA.  
 XX AC ABO17792;  
 XX DT 26-AUG-2003 (first entry)  
 XX DE Novel human secreted and transmembrane protein PRO266.  
 XX Human; secreted and transmembrane protein; PRO; anti-inflammatory;  
 KW antiarteriosclerotic; cardiant; anti-infectivity; anti-HIV; cytostatic;  
 KW antidiabetic; gene therapy; tumour necrosis factor (TNF)-alpha release;  
 KW TNF-alpha release; cell proliferation; cell differentiation;  
 KW gene expression modulator; proteoglycan release; cytokine release;  
 KW tumour; inflammatory disease; organ failure; atherosclerosis;  
 KW cardiac injury; infertility; birth defect; premature aging; AIDS;  
 KW acquired immunodeficiency syndrome; cancer; diabetic complication;  
 KW chromosome mapping; gene mapping; pharmaceutical; diagnostic; biosensor;  
 KW bioreactor; tissue typing.  
 XX OS Homo sapiens.  
 XX US2003032156-A1.  
 XX 13-FEB-2003.  
 XX 06-MAY-2002; 2002US-00140474.  
 PR 31-MAR-1997; 97WO-US005230.  
 PR 12-JUN-1998; 98WO-US012456.  
 PR 14-JUL-1998; 98WO-US014552.  
 PR 28-AUG-1998; 98WO-US017888.  
 PR 10-SEP-1998; 98WO-US018824.  
 PR 14-SEP-1998; 98WO-US019093.  
 PR 14-SEP-1998; 98WO-US019094.  
 PR 14-SEP-1998; 98WO-US019177.  
 PR 16-SEP-1998; 98WO-US019330.  
 PR 17-SEP-1998; 98WO-US019437.  
 PR 07-OCT-1998; 98WO-US021141.  
 PR 29-OCT-1998; 98WO-US022991.  
 PR 29-OCT-1998; 98WO-US022992.  
 PR 20-NOV-1998; 98WO-US024855.  
 PR 01-DEC-1998; 98WO-US025108.  
 PR 05-JAN-1999; 99WO-US000106.  
 PR 08-MAR-1999; 99WO-US005028.  
 PR 10-MAR-1999; 99WO-US005190.  
 PR 20-APR-1999; 99WO-US008615.  
 PR 14-MAY-1999; 99WO-US010733.  
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 PR 01-SEP-1999; 99WO-US020111.  
 PR 08-SEP-1999; 99WO-US020594.  
 PR 13-SEP-1999; 99WO-US020944.  
 PR 15-SEP-1999; 99WO-US021090.  
 PR 15-SEP-1999; 99WO-US021547.  
 PR 05-OCT-1999; 99WO-US023089.  
 PR 30-NOV-1999; 99WO-US028214.  
 PR 30-NOV-1999; 99WO-US028313.  
 PR 30-NOV-1999; 99WO-US028409.  
 PR 01-DEC-1999; 99WO-US028301.  
 PR 01-DEC-1999; 99WO-US028634.  
 PR 02-DEC-1999; 99WO-US028551.  
 PR 02-DEC-1999; 99WO-US028564.  
 PR 02-DEC-1999; 99WO-US028565.  
 PR 16-DEC-1999; 99WO-US030095.  
 PR 20-DEC-1999; 99WO-US030911.  
 PR 20-DEC-1999; 99WO-US030999.  
 PR 22-DEC-1999; 99WO-US030720.  
 PR 30-DEC-1999; 99WO-US031243.  
 PR 30-DEC-1999; 99WO-US031274.

PR 05-JAN-2000; 2000WO-US000219.  
PR 06-JAN-2000; 2000WO-US000277.  
PR 06-JAN-2000; 2000WO-US000376.  
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PR 18-FEB-2000; 2000WO-US0004341.  
PR 18-FEB-2000; 2000WO-US0004342.  
PR 22-FEB-2000; 2000WO-US0004414.  
PR 24-FEB-2000; 2000WO-US0004914.  
PR 24-FEB-2000; 2000WO-US0005004.  
PR 01-MAR-2000; 2000WO-US0005601.  
PR 02-MAR-2000; 2000WO-US0005746.  
PR 02-MAR-2000; 2000WO-US0005841.  
PR 10-MAR-2000; 2000WO-US0006319.  
PR 15-MAR-2000; 2000WO-US0006884.  
PR 20-MAR-2000; 2000WO-US0007377.  
PR 21-MAR-2000; 2000WO-US0007532.  
PR 10-MAY-2000; 2000WO-US0008439.  
PR 17-MAY-2000; 2000WO-US0013705.  
PR 22-MAY-2000; 2000WO-US014042.  
PR 30-MAY-2000; 2000WO-US014941.  
PR 02-JUN-2000; 2000WO-US015264.  
PR 28-JUN-2000; 2000WO-US020710.  
PR 11-AUG-2000; 2000WO-US022031.  
PR 23-AUG-2000; 2000WO-US023522.  
PR 24-AUG-2000; 2000WO-US023328.  
PR 08-NOV-2000; 2000WO-US030952.  
PR 10-NOV-2000; 2000WO-US030873.  
PR 01-DEC-2000; 2000WO-US032678.  
PR 20-DEC-2000; 2000US-00747259.  
PR 20-DEC-2000; 2000WO-US034956.  
PR 28-FEB-2001; 2001US-00796498.  
PR 28-FEB-2001; 2001WO-US006520.  
PR 01-MAR-2001; 2001WO-US006666.  
PR 09-MAR-2001; 2001US-00802706.  
PR 14-MAR-2001; 2001US-00806889.  
PR 22-MAR-2001; 2001US-00816744.  
PR 05-APR-2001; 2001US-00828366.  
PR 10-MAY-2001; 2001US-00854208.  
PR 10-MAY-2001; 2001US-00854208.  
PR 18-MAY-2001; 2001US-00860216.  
PR 25-MAY-2001; 2001US-00866028.  
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PR 25-MAY-2001; 2001WO-US017092.  
PR 01-JUN-2001; 2001US-00872035.  
PR 01-JUN-2001; 2001WO-US017800.  
PR 05-JUN-2001; 2001US-00874503.  
PR 14-JUN-2001; 2001US-00882636.  
PR 19-JUN-2001; 2001US-00886342.  
PR 20-JUN-2001; 2001WO-US019692.  
PR 21-JUN-2001; 2001US-00887879.  
PR 22-JUN-2001; 2001WO-US020116.  
PR 29-JUN-2001; 2001WO-US021066.  
PR 09-JUL-2001; 2001WO-US021735.  
PR 18-JUL-2001; 2001US-00908827.  
PR 06-AUG-2001; 2001US-00924419.  
PR 09-AUG-2001; 2001US-00927796.  
PR 16-AUG-2001; 2001US-00931836.  
PR 19-DEC-2001; 2001US-00028072.  
XX (GETH ) GENENTECH INC.  
XX Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W;  
XX Gerritsen ME, Goddard A, Godowski PU, Gurney AL, Sherwood S;  
XX Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;  
XX WPI; 2003-341980/32.  
XX N-PSDB; ACD24029.  
XX New secreted and transmembrane PRO nucleic acids, for treating  
XX inflammation, organ failure, atherosclerosis, cardiac injury,  
XX infertility, birth defects, premature aging, acquired immunodeficiency  
XX syndrome (AIDS), or cancer.

PS Claim 12; Fig 354; 660pp; English.  
XX The invention describes an isolated nucleic acid (I) comprising, or which  
CC has 80 % sequence identity to, or the full-length coding sequence of, one  
CC of 275 nucleotide sequences, and which encodes a corresponding  
CC polypeptide selected from 275 amino acid sequences, where all sequences  
CC are given in the specification. The polypeptide encoded by (I) is used to  
CC detect PRO polypeptides, link a bioactive molecule to a cell, stimulate the  
CC PRO polypeptide, modulate a biological activity of a cell, stimulate the  
CC release of tumour necrosis factor (TNF)-alpha from human blood, modulate  
CC the uptake of glucose or free fatty acid by cells, stimulate or inhibit  
CC the proliferation or differentiation of cells or gene expression,  
CC stimulate the release of proteoglycans, stimulate the release of cytokine  
CC from peripheral blood mononuclear cells, inhibit the binding of A-peptide  
CC to factor VIIa, or detect the presence of tumour in a mammal. The nucleic  
CC acid and polypeptide encoded by it, are useful for treating inflammatory  
CC diseases, organ failure, atherosclerosis, cardiac injury, infertility,  
CC birth defects, premature aging, acquired immunodeficiency syndrome  
CC (AIDS), cancer, or diabetic complications. The nucleic acid is useful as  
CC hybridisation probes, in chromosome and gene mapping, and in generating  
CC antisense RNA or DNA. The polypeptides are useful as pharmaceuticals,  
CC diagnostics, biosensors or bioreactors. Both are useful in tissue typing.  
CC This is the amino acid sequence of a novel human secreted and  
CC transmembrane PRO polypeptide  
XX Sequence 696 AA;

Query Match 56.8%; Score 42; DB 6; Length 696;  
Best Local Similarity 63.6%; Pred. No. 67;  
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 4 GMALSKINLHN 14  
|:|:|:|:|:  
Db 493 GVSLSKLSLHN 503

## RESULT 21

ID ABU71460 standard; protein; 696 AA.  
XX  
AC ABU71460;  
XX  
DT 10-JUN-2003 (first entry)  
XX Human PRO polypeptide #16.  
XX Human; secreted and transmembrane protein; PRO polypeptide; cancer;  
KW Alzheimer's disease; ischaemia; cytostatic; nootropic; vasotropic;  
XX neuroprotective.  
OS Homo sapiens.  
XX  
XX US2002192659-A1.  
XX  
PD 19-DEC-2002.  
XX  
XX 10-JUL-2001; 2001US-00902853.  
XX  
PR 17-SEP-1997; 97US-0059113P.  
PR 17-SEP-1997; 97US-0059115P.  
PR 17-SEP-1997; 97US-0059117P.  
PR 17-SEP-1997; 97US-0059119P.  
PR 17-SEP-1997; 97US-0059121P.  
PR 17-SEP-1997; 97US-0059122P.  
PR 17-SEP-1997; 97US-0059184P.  
PR 18-SEP-1997; 97US-0059263P.  
PR 18-SEP-1997; 97US-0059266P.  
PR 15-OCT-1997; 97US-0062125P.  
PR 17-OCT-1997; 97US-0062285P.  
PR 17-OCT-1997; 97US-0062287P.  
PR 21-OCT-1997; 97US-0063486P.  
PR 24-OCT-1997; 97US-0062814P.  
PR 24-OCT-1997; 97US-0062816P.

PR	24-OCT-1997;	97US-0063045P.	DR	WPI; 2003-361832/34.	
PR	24-OCT-1997;	97US-00631120P.	XX	N-PSDB; ACA58367.	
PR	24-OCT-1997;	97US-00631121P.	PT	New isolated nucleic acid encoding a PRO polypeptide, e.g. PRO245 or	
PR	24-OCT-1997;	97US-00631127P.	PT	PRO1868, useful in molecular biology, chromosome and gene mapping, in	
PR	24-OCT-1997;	97US-00631128P.	PT	generating antisense RNA and DNA, and in gene therapy.	
PR	27-OCT-1997;	97US-00633327P.	XX	Claim 12; Fig 34; 474pp; English.	
PR	27-OCT-1997;	97US-00633329P.	XX	The present invention relates to the isolation of novel human secreted	
PR	28-OCT-1997;	97US-0063341P.	CC	and transmembrane proteins (PRO polypeptides), and the polynucleotide	
PR	28-OCT-1997;	97US-0063342P.	CC	sequences encoding them. The polynucleotide sequences are useful in	
PR	28-OCT-1997;	97US-0063344P.	CC	molecular biology, as hybridisation probes, in chromosome and gene	
PR	28-OCT-1997;	97US-0063349P.	CC	mapping, in generating antisense RNA and DNA, and in gene therapy. The	
PR	28-OCT-1997;	97US-0063350P.	CC	polynucleotide sequences may also be used in preparing PRO polypeptides	
PR	28-OCT-1997;	97US-0063356P.	CC	by recombinant techniques, and in generating either transgenic animals or	
PR	29-OCT-1997;	97US-0063435P.	CC	knock-out animals which, in turn, are useful in the development and	
PR	29-OCT-1997;	97US-0063704P.	CC	screening of therapeutically useful reagents. The PRO polypeptides or	
PR	29-OCT-1997;	97US-0063732P.	CC	their antibodies are useful in preparing a medicament for treating a	
PR	29-OCT-1997;	97US-0063734P.	CC	condition responsive to the polypeptide or antibody, such as cancer,	
PR	29-OCT-1997;	97US-0063735P.	CC	Alzheimer's disease or ischaemia, and in various diagnostic assays.	
PR	29-OCT-1997;	97US-0063738P.	CC	ABU71445-ABU71505 represent human PRO polypeptides of the invention	
PR	31-OCT-1997;	97US-0063870P.	XX	Sequence 696 AA;	
PR	31-OCT-1997;	97US-0064103P.	XX	Query Match 56.8%; Score 42; DB 6; Length 696;	
PR	03-NOV-1997;	97US-0064248P.		Best Local Similarity 63.6%; Pred. No. 67;	
PR	07-NOV-1997;	97US-0064809P.		Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;	
PR	12-NOV-1997;	97US-0065186P.			
PR	17-NOV-1997;	97US-0065846P.			
PR	18-NOV-1997;	97US-0065693P.			
PR	21-NOV-1997;	97US-0066120P.			
PR	21-NOV-1997;	97US-0066364P.			
PR	24-NOV-1997;	97US-0066453P.			
PR	24-NOV-1997;	97US-0066466P.			
PR	24-NOV-1997;	97US-0066511P.			
PR	24-NOV-1997;	97US-0066770P.			
PR	24-NOV-1997;	97US-0066772P.			
PR	10-SEP-1998;	98WO-US018824.			
PR	14-SEP-1998;	98WO-US019177.			
PR	16-SEP-1998;	98WO-US019330.			
PR	17-SEP-1998;	98WO-US019437.			
PR	01-DEC-1998;	98WO-US025108.			
PR	08-SEP-1999;	99WO-US020594.			
PR	13-SEP-1999;	99WO-US020944.			
PR	15-SEP-1999;	99WO-US021090.			
PR	15-SEP-1999;	99WO-US021547.			
PR	05-OCT-1999;	99WO-US023089.			
PR	29-NOV-1999;	99WO-US028214.			
PR	30-NOV-1999;	99WO-US028313.			
PR	01-DEC-1999;	99WO-US028301.			
PR	02-DEC-1999;	99WO-US028564.			
PR	02-DEC-1999;	99WO-US028565.			
PR	16-DEC-1999;	99WO-US030095.			
PR	20-DEC-1999;	99WO-US030911.			
PR	20-DEC-1999;	99WO-US030999.			
PR	05-JAN-2000;	2000WO-US000219.			
PR	11-FEB-2000;	2000WO-US003565.			
PR	22-FEB-2000;	2000WO-US004414.			
PR	02-MAR-2000;	2000WO-US005044.			
PR	02-MAR-2000;	2000WO-US005841.			
PR	30-MAR-2000;	2000WO-US008439.			
PR	22-MAY-2000;	2000WO-US014042.			
PR	02-JUN-2000;	2000WO-US015264.			
PR	28-JUL-2000;	2000WO-US020710.			
PR	24-AUG-2000;	2000WO-US023328.			
PR	18-SEP-2000;	2000US-00665350.			
XX					
PA	(GETH ) GENENTECH INC.				
XX					
PI	Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;				
PI	Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;				
PI	Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ;				
PI	Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;				
PI	Williams PM, Wood WI;				
XX					

PR 17-OCT-1997; 97US-0062287P.  
 PR 17-OCT-1997; 97US-0063755P.  
 PR 24-OCT-1997; 97US-0062814P.  
 PR 24-OCT-1997; 97US-0062816P.  
 PR 24-OCT-1997; 97US-0063045P.  
 PR 24-OCT-1997; 97US-0063082P.  
 PR 27-OCT-1997; 97US-0063327P.  
 PR 27-OCT-1997; 97US-0063329P.  
 PR 28-OCT-1997; 97US-0063500P.  
 PR 28-OCT-1997; 97US-0063561P.  
 PR 29-OCT-1997; 97US-0063704P.  
 PR 29-OCT-1997; 97US-0063733P.  
 PR 29-OCT-1997; 97US-0063735P.  
 PR 03-NOV-1997; 97US-0064248P.  
 PR 07-NOV-1997; 97US-0064809P.  
 PR 12-NOV-1997; 97US-0065186P.  
 PR 17-NOV-1997; 97US-0065846P.  
 PR 21-NOV-1997; 97US-0066364P.  
 PR 24-NOV-1997; 97US-0066453P.  
 PR 24-NOV-1997; 97US-0066511P.  
 PR 24-NOV-1997; 97US-0066770P.  
 PR 11-DEC-1997; 97US-0069212P.  
 PR 11-DEC-1997; 97US-0069278P.  
 PR 11-DEC-1997; 97US-0069334P.  
 PR 16-DEC-1997; 97US-0069694P.  
 PR 23-JAN-1998; 97US-0072320P.  
 PR 04-FEB-1998; 97US-0073612P.  
 PR 09-FEB-1998; 97US-0074086P.  
 PR 09-FEB-1998; 97US-0074092P.  
 PR 12-MAR-1998; 97US-0077791P.  
 PR 20-MAR-1998; 97US-0078910P.  
 PR 25-MAR-1998; 97US-0079294P.  
 PR 27-MAR-1998; 97US-0079663P.  
 PR 27-MAR-1998; 97US-0079728P.  
 PR 31-MAR-1998; 97US-0080165P.  
 PR 12-JUN-1998; 97US-008012456.  
 PR 14-JUL-1998; 97US-008014552.  
 PR 28-AUG-1998; 97US-008017888.  
 PR 10-SEP-1998; 97US-008018824.  
 PR 14-SEP-1998; 97US-008019093.  
 PR 14-SEP-1998; 97US-008019094.  
 PR 16-SEP-1998; 97US-008019177.  
 PR 17-SEP-1998; 97US-008019330.  
 PR 07-OCT-1998; 97US-008019437.  
 PR 29-OCT-1998; 97US-008021141.  
 PR 29-OCT-1998; 97US-008022991.  
 PR 20-NOV-1998; 97US-008022992.  
 PR 01-DEC-1998; 97US-008024855.  
 PR 05-JAN-1999; 97US-008025108.  
 PR 08-MAR-1999; 97US-00800106.  
 PR 10-MAR-1999; 97US-008005028.  
 PR 20-APR-1999; 97US-008005190.  
 PR 14-MAY-1999; 97US-008008615.  
 PR 02-JUN-1999; 97US-008010733.  
 PR 01-SEP-1999; 97US-008012252.  
 PR 08-SEP-1999; 97US-008020594.  
 PR 13-SEP-1999; 97US-008020944.  
 PR 15-SEP-1999; 97US-008021090.  
 PR 15-SEP-1999; 97US-008021547.  
 PR 05-OCT-1999; 97US-008023089.  
 PR 29-NOV-1999; 97US-008028214.  
 PR 10-NOV-1999; 97US-008028313.  
 PR 29-NOV-1999; 97US-008028409.  
 PR 01-DEC-1999; 97US-008028301.  
 PR 01-DEC-1999; 97US-008028634.  
 PR 02-DEC-1999; 97US-008028551.  
 PR 02-DEC-1999; 97US-008028564.  
 PR 16-DEC-1999; 97US-008028565.  
 PR 20-DEC-1999; 97US-008030095.  
 PR 20-DEC-1999; 97US-008030911.

PR 20-DEC-1999; 99WO-US030999.  
 PR 30-DEC-1999; 99WO-US031243.  
 PR 30-DEC-1999; 99WO-US031274.  
 PR 05-JAN-2000; 2000WO-US000219.  
 PR 06-JAN-2000; 2000WO-US000277.  
 PR 06-JAN-2000; 2000WO-US000376.  
 PR 11-FEB-2000; 2000WO-US0003565.  
 PR 18-FEB-2000; 2000WO-US0004341.  
 PR 18-FEB-2000; 2000WO-US0004342.  
 PR 22-FEB-2000; 2000WO-US0004114.  
 PR 24-FEB-2000; 2000WO-US0004914.  
 PR 01-MAR-2000; 2000WO-US0005004.  
 PR 02-MAR-2000; 2000WO-US0005601.  
 PR 02-MAR-2000; 2000WO-US0005746.  
 XX (GETH ) GENENTECH INC.  
 XX  
 PI Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W;  
 PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;  
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;  
 XX  
 DR WPI; 2003-352836/33.  
 DR N-FSDB; ACA67170.  
 XX  
 PT New isolated PRO polypeptide useful for treating diabetes, rheumatoid  
 PT arthritis, sports injuries, obesity, hearing loss in mammals, stroke, or  
 PT heart attack.  
 XX  
 PS Claim 12; Fig 354; 643pp; English.  
 XX  
 CC The present invention relates to the isolation of novel human PRO  
 CC polypeptides, and the polynucleotide sequences encoding them. The PRO  
 CC polypeptides are secreted and transmembrane proteins. The PRO  
 CC polypeptides and polynucleotides are useful for preparing a medicament  
 CC useful in the treatment of diabetes, bone and/or cartilage disorders  
 CC (e.g. rheumatoid arthritis, sports injuries, osteoarthritis), obesity,  
 CC hyper- or hypo-insulinaemia, hearing loss, and coagulation disorders  
 CC (e.g. stroke, heart attack). Anti-PRO antibodies are useful in diagnostic  
 CC assays for PRO, by detecting its expression in specific cells, tissues or  
 CC serum, and for affinity purification of PRO from recombinant cell culture  
 CC or natural sources. ABU0870-ABU01144 represent the human PRO  
 CC polypeptides of the invention. Note: The sequence data for this patent  
 CC was obtained in electronic format directly from the USPTO web site at  
 CC seqdata.uspto.gov/psipdb/entry.html  
 XX  
 SQ Sequence 696 AA;  
 Query Match 56.8%; Score 42; DB 6; Length 696;  
 Best Local Similarity 63.6%; Pred. No. 67;  
 Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;  
 QY 4 GMALSKINLHN 14  
 |::|::|::|::|  
 Db 493 GVSLSKLSLHN 503  
 RESULT 23  
 ABU71906  
 ID ABU71906 standard; protein; 696 AA.  
 XX  
 AC ABU71906;  
 XX  
 DT 12-JUN-2003 (first entry)  
 XX  
 DE Human secreted/transmembrane protein PRO266.  
 XX  
 KW Human; secreted protein; transmembrane protein; PRO; Gene therapy;  
 KW Chromosome identification; chromosome marker.  
 XX  
 OS Homo sapiens.  
 XX  
 PN US2003003530-A1.  
 XX



XX 07-AUG-2003 (first entry)

XX Novel human secreted and transmembrane protein PRO266.

XX Human; secreted and transmembrane protein; PRO; pharmaceutical;

XX diagnostic; biosensor; bioreactor; Parkinson's disease;

XX Alzheimer's disease; inflammation; nephritis; wound healing;

XX nerve repair; collateral blood vessel formation; cancer;

XX colorectal cancer; haemorrhage; rheumatoid arthritis; diabetes;

XX cirrhosis; fibrosis; restenosis; dermal fibrotic condition; keloid;

XX scarring; ischaemia; stroke; hypertension; heart attack; atherosclerosis;

XX infertility; gene therapy.

XX Homo sapiens.

XX US2002197671-A1.

XX 26-DEC-2002.

XX 17-JUL-2001; 2001US-00907824.

XX 17-SEP-1997; 97US-0059113P.

XX 17-SEP-1997; 97US-0059115P.

XX 17-SEP-1997; 97US-0059117P.

XX 17-SEP-1997; 97US-0059119P.

XX 17-SEP-1997; 97US-0059121P.

XX 17-SEP-1997; 97US-0059122P.

XX 17-SEP-1997; 97US-0059184P.

XX 18-SEP-1997; 97US-0059263P.

XX 18-SEP-1997; 97US-0059266P.

XX 15-OCT-1997; 97US-0062125P.

XX 17-OCT-1997; 97US-0062288P.

XX 17-OCT-1997; 97US-0062289P.

XX 21-OCT-1997; 97US-0063486P.

XX 21-OCT-1997; 97US-0062814P.

XX 24-OCT-1997; 97US-0062816P.

XX 24-OCT-1997; 97US-0063045P.

XX 24-OCT-1997; 97US-0063120P.

XX 24-OCT-1997; 97US-0063121P.

XX 24-OCT-1997; 97US-0063127P.

XX 24-OCT-1997; 97US-0063128P.

XX 27-OCT-1997; 97US-0063327P.

XX 27-OCT-1997; 97US-0063329P.

XX 28-OCT-1997; 97US-0063341P.

XX 28-OCT-1997; 97US-0063342P.

XX 28-OCT-1997; 97US-0063344P.

XX 28-OCT-1997; 97US-0063349P.

XX 28-OCT-1997; 97US-0063350P.

XX 29-OCT-1997; 97US-0063356P.

XX 29-OCT-1997; 97US-0063435P.

XX 29-OCT-1997; 97US-0063704P.

XX 29-OCT-1997; 97US-0063732P.

XX 29-OCT-1997; 97US-0063734P.

XX 29-OCT-1997; 97US-0063735P.

XX 29-OCT-1997; 97US-0063738P.

XX 29-OCT-1997; 97US-0064215P.

XX 31-OCT-1997; 97US-0063870P.

XX 31-OCT-1997; 97US-0064103P.

XX 03-NOV-1997; 97US-0064248P.

XX 03-NOV-1997; 97US-0064809P.

XX 12-NOV-1997; 97US-0065196P.

XX 17-NOV-1997; 97US-0065846P.

XX 18-NOV-1997; 97US-0066120P.

XX 21-NOV-1997; 97US-0066134P.

XX 21-NOV-1997; 97US-0066453P.

XX 24-NOV-1997; 97US-0066466P.

XX 24-NOV-1997; 97US-0066511P.

XX 24-NOV-1997; 97US-0066770P.

XX 10-SEP-1998; 98WO-US018824.

XX 14-SEP-1998; 98WO-US019177.

PR 16-SEP-1998; 98WO-US019330.

PR 17-SEP-1998; 98WO-US019437.

PR 01-DEC-1998; 98WO-US025108.

PR 08-SEP-1999; 99WO-US020594.

PR 13-SEP-1999; 99WO-US020944.

PR 15-SEP-1999; 99WO-US021090.

PR 15-SEP-1999; 99WO-US021547.

PR 05-OCT-1999; 99WO-US023089.

PR 29-NOV-1999; 99WO-US028214.

PR 30-NOV-1999; 99WO-US028313.

PR 01-DEC-1999; 99WO-US028301.

PR 02-DEC-1999; 99WO-US028564.

PR 02-DEC-1999; 99WO-US028565.

PR 16-DEC-1999; 99WO-US030095.

PR 20-DEC-1999; 99WO-US030911.

PR 20-DEC-1999; 99WO-US030999.

PR 05-JAN-2000; 2000WO-US000219.

PR 11-FEB-2000; 2000WO-US003565.

PR 22-FEB-2000; 2000WO-US004414.

PR 24-FEB-2000; 2000WO-US005004.

PR 02-MAR-2000; 2000WO-US005841.

PR 20-MAR-2000; 2000WO-US007377.

PR 30-MAR-2000; 2000WO-US008439.

PR 22-MAY-2000; 2000WO-US014042.

PR 02-JUN-2000; 2000WO-US015264.

PR 28-JUL-2000; 2000WO-US020710.

PR 24-AUG-2000; 2000WO-US023328.

PR 18-SEP-2000; 2000US-00665350.

XX (GETH ) GENENTECH INC.

XX Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;

XX Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;

XX Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kijavlin IJ;

XX Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;

XX Williams PM, Wood WI;

XX WPI; 2003-370793/35.

XX N-PSDB; ACD07474.

XX New genes and secreted and transmembrane polypeptides (e.g. PRO245 or

XX PRO335), useful for treating or diagnosing e.g. Alzheimer's disease,

XX cancers, hemorrhage, rheumatoid arthritis, diabetes, cirrhosis, ischemia

XX or strokes.

XX Claim 12; Fig 34; 482pp; English.

XX The invention describes a new isolated nucleic acid molecule comprising

XX the full length coding sequence of the DNA deposited with the American

XX Type Culture Collection (e.g. ATCC deposit No. 209258), or a sequence

XX with at least 80% identity to a DNA encoding a PRO polypeptide comprising

XX any of 61 sequences having 164-1119 amino acids fully defined in the

XX specification. The PRO polypeptides or polynucleotides are useful as

XX pharmaceuticals, diagnostics, biosensors or bioreactors. These are

XX particularly useful for detecting or treating e.g. Parkinson's disease,

XX Alzheimer's disease, inflammations, nephritis, wound healing, nerve

XX repair, collateral blood vessel formation, cancers (e.g. colorectal

XX cancer), haemorrhage (or reduce risk for haemorrhage), rheumatoid

XX arthritis, diabetes, cirrhosis of the liver, fibrosis of the lungs,

XX restenosis, dermal fibrotic conditions (e.g. keloids or scarring), or

XX ischaemia, strokes, hypertension, heart attacks, atherosclerosis, or

XX infertility in mammals (e.g. humans, dogs, cats, cattle, horses, sheep,

XX pigs, goats, or rabbits). The PRO polypeptides are useful as targets for

XX therapeutic intervention in these diseases, and diagnostic determination

XX of the presence of these diseases. The PRO polypeptides are also useful

XX as molecular weight markers, or for chromosome identification. The PRO

XX genes are useful as hybridisation probes, or for screening libraries of

XX human cDNA, genomic DNA or mRNA. The PRO genes may also be used in gene

XX therapy, particularly for replacing a defective gene. This is the amino

XX acid sequence of a novel human secreted and transmembrane PRO polypeptide

XX Sequence 696 AA;

XX SQ



Query Match	56.8%; Score 42; DB 6; Length 696;				
Best Local Similarity	63.6%; Pred. No. 67;				
Matches	7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;				
Oy	4 GWALSKINLHN 14				
Db	493 GVSLSKLSLHN 503				
RESULT 25					
ABU66746					
ID	ABU66746 standard; protein; 696 AA.				
XX					
AC	ABU66746;				
DT	23-MAY-2003 (first entry)				
XX					
DE	Human PRO polypeptide #177.				
XX					
KW	Human; PRO polypeptide; secreted and transmembrane protein;				
KW	tumour necrosis factor-alpha; TNF-alpha; blood; proliferation;				
KW	differentiation; chondrocyte; tumour; genetic disorder; cytostatic.				
XX					
OS	Homo sapiens.				
XX					
PN	US2003036180-A1.				
XX					
PD	20-FEB-2003.				
XX					
PF	09-MAY-2002; 2002US-00143114.				
XX					
PR	31-MAR-1997; 97WO-US005230.				
PR	12-JUN-1998; 98WO-US012456.				
PR	14-JUL-1998; 98WO-US014552.				
PR	28-AUG-1998; 98WO-US017888.				
PR	10-SEP-1998; 98WO-US018824.				
PR	14-SEP-1998; 98WO-US019093.				
PR	14-SEP-1998; 98WO-US019094.				
PR	14-SEP-1998; 98WO-US019177.				
PR	16-SEP-1998; 98WO-US019330.				
PR	17-SEP-1998; 98WO-US019437.				
PR	07-OCT-1998; 98WO-US021141.				
PR	29-OCT-1998; 98WO-US022991.				
PR	29-OCT-1998; 98WO-US022992.				
PR	20-NOV-1998; 98WO-US024855.				
PR	01-DEC-1998; 98WO-US025108.				
PR	05-JAN-1999; 99WO-US000106.				
PR	08-MAR-1999; 99WO-US005028.				
PR	10-MAR-1999; 99WO-US005190.				
PR	20-APR-1999; 99WO-US008615.				
PR	14-MAY-1999; 99WO-US010733.				
PR	02-JUN-1999; 99WO-US012252.				
PR	01-SEP-1999; 99WO-US020111.				
PR	08-SEP-1999; 99WO-US020594.				
PR	13-SEP-1999; 99WO-US020944.				
PR	15-SEP-1999; 99WO-US021090.				
PR	15-SEP-1999; 99WO-US021547.				
PR	05-OCT-1999; 99WO-US023089.				
PR	29-NOV-1999; 99WO-US028214.				
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PR	30-NOV-1999; 99WO-US028409.				
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PR	22-DEC-1999; 99WO-US030720.				
PR	30-DEC-1999; 99WO-US031243.				
PR	30-DEC-1999; 99WO-US031274.				
PR	05-JAN-2000; 2000WO-US000219.				
PR	06-JAN-2000; 2000WO-US000277.				
PR	06-JAN-2000; 2000WO-US000376.				
PR	11-FEB-2000; 2000WO-US003565.				
PR	18-FEB-2000; 2000WO-US004341.				
PR	18-FEB-2000; 2000WO-US004342.				
PR	22-FEB-2000; 2000WO-US004414.				
PR	24-FEB-2000; 2000WO-US004914.				
PR	01-MAR-2000; 2000WO-US005601.				
PR	02-MAR-2000; 2000WO-US005746.				
PR	02-MAR-2000; 2000WO-US005841.				
PR	10-MAR-2000; 2000WO-US006319.				
PR	15-MAR-2000; 2000WO-US006884.				
PR	20-MAR-2000; 2000WO-US007377.				
PR	21-MAR-2000; 2000WO-US007532.				
PR	30-MAR-2000; 2000WO-US008439.				
PR	17-MAY-2000; 2000WO-US013705.				
PR	22-MAY-2000; 2000WO-US014942.				
PR	30-MAY-2000; 2000WO-US014941.				
PR	02-JUN-2000; 2000WO-US015264.				
PR	28-JUL-2000; 2000WO-US020710.				
PR	11-AUG-2000; 2000WO-US022031.				
PR	23-AUG-2000; 2000WO-US023522.				
PR	24-AUG-2000; 2000WO-US023328.				
PR	08-NOV-2000; 2000WO-US030952.				
PR	10-NOV-2000; 2000WO-US030873.				
PR	01-DEC-2000; 2000WO-US032678.				
PR	20-DEC-2000; 2000US-00747259.				
PR	20-DEC-2000; 2000WO-US034956.				
PR	28-FEB-2001; 2001US-00796498.				
PR	28-FEB-2001; 2001WO-US006520.				
PR	01-MAR-2001; 2001WO-US006666.				
PR	09-MAR-2001; 2001US-00802706.				
PR	12-MAR-2001; 2001US-00808689.				
PR	24-MAR-2001; 2001US-00816744.				
PR	05-APR-2001; 2001US-00828366.				
PR	10-MAY-2001; 2001US-00854208.				
PR	10-MAY-2001; 2001US-00854280.				
PR	18-MAY-2001; 2001US-00860216.				
PR	25-MAY-2001; 2001US-00866028.				
PR	25-MAY-2001; 2001US-00866034.				
PR	25-MAY-2001; 2001WO-US017092.				
PR	01-JUN-2001; 2001US-00872035.				
PR	01-JUN-2001; 2001WO-US017800.				
PR	05-JUN-2001; 2001US-00874503.				
PR	14-JUN-2001; 2001US-00882636.				
PR	19-JUN-2001; 2001US-00886342.				
PR	20-JUN-2001; 2001WO-US019692.				
PR	21-JUN-2001; 2001US-00887879.				
PR	22-JUN-2001; 2001WO-US020116.				
PR	29-JUN-2001; 2001WO-US021066.				
PR	09-JUL-2001; 2001WO-US021735.				
PR	18-JUL-2001; 2001US-00908827.				
PR	06-AUG-2001; 2001US-00924419.				
PR	09-AUG-2001; 2001US-00927796.				
PR	16-AUG-2001; 2001US-00931836.				
PR	19-DEC-2001; 2001US-00028072.				
XX	(GETH ) GENENTECH INC.				
PA					
XX	Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;				
PI	Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;				
PI	Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;				
XX	WPI; 2003-332040/31.				
DR	N-PSDB; ACA03779.				
XX					
PT	New secreted and transmembrane PRO nucleic acids, useful for gene				
PT	therapy, in chromosome and gene mapping, as chromosome markers, in tissue				
XX	typing, and in chromosome identification.				
PS	Claim 12; Fig 354; 660pp; English.				
XX					

CC The present invention relates to the isolation of novel human PRO  
 CC polypeptides, and the polynucleotide sequences encoding them. The PRO  
 CC polypeptides are secreted and transmembrane proteins. The PRO  
 CC polypeptides are useful for detecting other PRO polypeptides, for linking  
 CC bioactive molecules to cells expressing PRO polypeptides, and for  
 CC biological activities of cells expressing PRO polypeptides, and for  
 CC identifying agonists or antagonists. The PRO polypeptides are useful for  
 CC for stimulating the release of tumour necrosis factor (TNF)-alpha from  
 CC human blood, for stimulating the proliferation or differentiation of  
 CC chondrocytes, and detecting the presence of tumours. The polynucleotide  
 CC sequences encoding PRO polypeptides are useful as hybridisation probes,  
 CC in chromosome and gene mapping, in the generation of antisense RNA and  
 CC DNA, in the preparation of PRO polypeptides, for generating transgenic  
 CC animals or knockout animals, for the genetic analysis of individuals with  
 CC genetic disorders, and in gene therapy. AB06570-AB06684 represent the  
 CC human PRO polypeptides of the invention. Note: The sequence data for this  
 CC patent was obtained in electronic format directly from the USPTO web site  
 CC at seqdata.uspto.gov/paidsDIDentry.html  
 XX  
 SQ Sequence 696 AA;

Query Match 56.8%; Score 42; DB 6; Length 696;  
 Best Local Similarity 63.6%; Pred. No. 67;  
 Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 4 GWALSKINLHN 14  
 Db [:::||||:]  
 493 GVSLSKLSLHN 503

RESULT 26  
 ABUS4362  
 ID ABUS4362 standard; protein; 696 AA.

AC ABUS4362;

XX 10-MAR-2003 (first entry)

DE Human secreted/transmembrane protein PRO266.

XX Human; PRO; secreted protein; transmembrane protein; enterocolitis;  
 KW Gastrointestinal ulceration; skin disease;  
 KW abnormal keratinocyte differentiation; psoriasis; epithelial cancer;  
 KW squamous cell carcinoma; Alzheimer's disease; Parkinson's disease;  
 KW amyotrophic lateral sclerosis; inflammatory disease;  
 KW rheumatoid arthritis; asthma; multiple sclerosis; organ failure;  
 KW atherosclerosis; cardiac injury; infertility; birth defect;  
 KW premature aging; AIDS; acquired immunodeficiency syndrome; cancer;  
 KW diabetic complication; wound repair.

XX Homo sapiens.

XX US2002132240-A1.

PD 19-SEP-2002.

XX 18-JUL-2001; 2001US-00909320.

XX 17-SEP-1997; 97US-0059113P.  
 PR 17-SEP-1997; 97US-0059115P.  
 PR 17-SEP-1997; 97US-0059117P.  
 PR 17-SEP-1997; 97US-0059119P.  
 PR 17-SEP-1997; 97US-0059121P.  
 PR 17-SEP-1997; 97US-0059122P.  
 PR 17-SEP-1997; 97US-0059184P.  
 PR 18-SEP-1997; 97US-0059263P.  
 PR 18-SEP-1997; 97US-0059266P.  
 PR 15-OCT-1997; 97US-0062125P.  
 PR 17-OCT-1997; 97US-0062285P.  
 PR 21-OCT-1997; 97US-0063486P.  
 PR 24-OCT-1997; 97US-0062814P.  
 PR 24-OCT-1997; 97US-0062816P.

PR 24-OCT-1997; 97US-0063045P.  
 PR 24-OCT-1997; 97US-0063120P.  
 PR 24-OCT-1997; 97US-0063121P.  
 PR 24-OCT-1997; 97US-0063127P.  
 PR 24-OCT-1997; 97US-0063128P.  
 PR 27-OCT-1997; 97US-0063327P.  
 PR 27-OCT-1997; 97US-0063329P.  
 PR 28-OCT-1997; 97US-0063541P.  
 PR 28-OCT-1997; 97US-0063542P.  
 PR 28-OCT-1997; 97US-0063544P.  
 PR 28-OCT-1997; 97US-0063549P.  
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 PR 28-OCT-1997; 97US-0063564P.  
 PR 29-OCT-1997; 97US-0063435P.  
 PR 29-OCT-1997; 97US-0063702P.  
 PR 29-OCT-1997; 97US-0063732P.  
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 PR 29-OCT-1997; 97US-0063738P.  
 PR 29-OCT-1997; 97US-0064215P.  
 PR 31-OCT-1997; 97US-0063870P.  
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 PR 12-NOV-1997; 97US-0065186P.  
 PR 17-NOV-1997; 97US-0065846P.  
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 PR 21-NOV-1997; 97US-0066120P.  
 PR 21-NOV-1997; 97US-0066364P.  
 PR 24-NOV-1997; 97US-0066453P.  
 PR 24-NOV-1997; 97US-0066466P.  
 PR 24-NOV-1997; 97US-0066511P.  
 PR 24-NOV-1997; 97US-0066770P.  
 PR 24-NOV-1997; 97US-0066772P.  
 PR 10-SEP-1998; 98WO-US018824.  
 PR 14-SEP-1998; 98WO-US019177.  
 PR 16-SEP-1998; 98WO-US019330.  
 PR 17-SEP-1998; 98WO-US019437.  
 PR 01-DEC-1998; 98WO-US025108.  
 PR 08-SEP-1999; 99WO-US020594.  
 PR 13-SEP-1999; 99WO-US020944.  
 PR 15-SEP-1999; 99WO-US021090.  
 PR 15-SEP-1999; 99WO-US021547.  
 PR 05-OCT-1999; 99WO-US023089.  
 PR 29-NOV-1999; 99WO-US028214.  
 PR 30-NOV-1999; 99WO-US028313.  
 PR 01-DEC-1999; 99WO-US028301.  
 PR 02-DEC-1999; 99WO-US028564.  
 PR 02-DEC-1999; 99WO-US028565.  
 PR 16-DEC-1999; 99WO-US030095.  
 PR 20-DEC-1999; 99WO-US030911.  
 PR 20-DEC-1999; 99WO-US030999.  
 PR 06-JAN-2000; 2000WO-US000219.  
 PR 11-FEB-2000; 2000WO-US003565.  
 PR 22-FEB-2000; 2000WO-US004414.  
 PR 24-FEB-2000; 2000WO-US005004.  
 PR 02-MAR-2000; 2000WO-US005841.  
 PR 20-MAR-2000; 2000WO-US007377.  
 PR 30-MAR-2000; 2000WO-US008439.  
 PR 22-MAY-2000; 2000WO-US014042.  
 PR 02-JUN-2000; 2000WO-US015264.  
 PR 28-JUL-2000; 2000WO-US020710.  
 PR 24-AUG-2000; 2000WO-US023328.  
 PR 18-SEP-2000; 2000US-00655350.

(GETH ) GENENTECH INC.

XX Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;  
 XX Pilvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;  
 PI Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kijavir LJ;  
 PI Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;  
 PI Williams PM, Wood WI;  
 XX

WFI; 2003-147434/14.  
N-PSDB; ABX71522.

New PRO polypeptides and nucleic acid molecules, useful in diagnosing or treating inflammatory diseases, organ failure, atherosclerosis, cardiac injury, infertility, cancer, AIDS, Alzheimer's disease or Parkinson's disease.

Claim 12; Fig 34; 473pp; English.

The invention relates to an isolated PRO polypeptide having at least 80% amino acid sequence identity to: (a) any one of 61 fully defined amino acid sequences given in the specification (appearing as ABU54347-ABU54407); (b) an amino acid sequence encoded by the nucleotide sequence deposited under American Type Culture Collection (accession numbers listed in the specification); (c) any one of the PRO sequences which lacks its associated signal peptide; (d) an extracellular domain of the PRO polypeptide with its associated signal peptide; or (e) an extracellular domain of the PRO polypeptide which lacks its associated signal peptide. Also include are the nucleic acids encoding the PRO polypeptides, vectors, host cells and anti-PRO antibodies. The PRO polypeptides and nucleic acids are useful in diagnosing or treating enterocolitis, gastrointestinal ulceration, skin diseases associated with abnormal keratinocyte differentiation, e.g. psoriasis or epithelial cancers such as squamous cell carcinoma, Alzheimer's disease, Parkinson's disease, amyotrophic lateral sclerosis, inflammatory diseases, e.g. rheumatoid arthritis, asthma or multiple sclerosis, organ failure, atherosclerosis, cardiac injury, infertility, birth defects, premature aging, AIDS, cancer, diabetic complications, or mutations in general. The polypeptides are also useful for wound repair and associated therapies concerned with re-growth of tissue. The nucleotide sequences may be used as hybridisation probes in chromosome and gene mapping, or in generating antisense RNA and DNA. PRO nucleic acids are also useful in preparing PRO polypeptides, in assays to identify other proteins or molecules involved in binding reaction, to generate transgenic animals or knockout animals, which in turn are useful in the development and screening of therapeutically useful reagents, for chromosome identification, and tissue typing. The PRO polypeptides and nucleic acid molecules are also useful in gene therapy, and as molecular weight markers for protein electrophoresis purposes. The anti-PRO antibodies may be used in diagnostic assays for PRO, or for the affinity purification of PRO from recombinant cell culture or natural sources. The present sequence represents a PRO polypeptide

Sequence 696 AA;

Query Match 56.8%; Score 42; DB 6; Length 696;  
Best Local Similarity 63.6%; Pred. No. 67;  
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0

QY 4 GMALSKNLHN 14  
|::||::||  
Db 493 GVSLKSLHN 503

RESULT 27  
ABO47377  
ID ABO47377 standard; protein; 696 AA.  
XX ABO47377;  
AC  
XX  
XX 08-OCT-2003 (first entry)  
XX Human secreted/transmembrane polypeptide PRO266.  
XX Human; abnormal bleeding; gynaecological disease; asthma; hysterectomy; angiogenesis; coronary ischaemic condition; skin disease;  
KW gastrointestinal mucosa disorder; acute mucosal lesion; neuropathy; ALS;  
KW chronic mucosal lesion; abnormal keratinocyte differentiation; psoriasis;  
KW Parkinson's disease; Alzheimer's disease; amyotrophic lateral sclerosis;  
KW uncontrolled cell growth; cancer; blood coagulation cascade; thrombosis;  
KW haemorrhage; endometrial bleeding; angiogenesis; wound healing; tumour;  
KW tissue repair; rheumatoid arthritis; multiple sclerosis; tissue typing.





PD 20-FEB-2003.  
 XX 10-MAY-2002; 2002US-00142431.  
 XX 31-MAR-1997; 97WO-US005230.  
 PR 12-JUN-1998; 98WO-US012456.  
 PR 14-JUL-1998; 98WO-US014552.  
 PR 28-AUG-1998; 98WO-US017888.  
 PR 10-SEP-1998; 98WO-US018824.  
 PR 14-SEP-1998; 98WO-US019093.  
 PR 14-SEP-1998; 98WO-US019094.  
 PR 16-SEP-1998; 98WO-US019177.  
 PR 16-SEP-1998; 98WO-US019330.  
 PR 17-SEP-1998; 98WO-US019437.  
 PR 17-OCT-1998; 98WO-US021141.  
 PR 29-OCT-1998; 98WO-US022991.  
 PR 29-OCT-1998; 98WO-US022992.  
 PR 20-NOV-1998; 98WO-US021495.  
 PR 01-DEC-1998; 98WO-US025108.  
 PR 03-JAN-1999; 99WO-US000106.  
 PR 08-MAR-1999; 99WO-US005028.  
 PR 10-MAR-1999; 99WO-US005190.  
 PR 20-APR-1999; 99WO-US008615.  
 PR 14-MAY-1999; 99WO-US010733.  
 PR 02-JUN-1999; 99WO-US012252.  
 PR 01-SEP-1999; 99WO-US020111.  
 PR 08-SEP-1999; 99WO-US020594.  
 PR 13-SEP-1999; 99WO-US020944.  
 PR 15-SEP-1999; 99WO-US021090.  
 PR 15-SEP-1999; 99WO-US021547.  
 PR 05-OCT-1999; 99WO-US023089.  
 PR 29-NOV-1999; 99WO-US028214.  
 PR 30-NOV-1999; 99WO-US028313.  
 PR 30-NOV-1999; 99WO-US028409.  
 PR 01-DEC-1999; 99WO-US028301.  
 PR 01-DEC-1999; 99WO-US028634.  
 PR 02-DEC-1999; 99WO-US028951.  
 PR 02-DEC-1999; 99WO-US028954.  
 PR 16-DEC-1999; 99WO-US028955.  
 PR 16-DEC-1999; 99WO-US030095.  
 PR 20-DEC-1999; 99WO-US030911.  
 PR 20-DEC-1999; 99WO-US030999.  
 PR 22-DEC-1999; 99WO-US030720.  
 PR 30-DEC-1999; 99WO-US031243.  
 PR 30-DEC-1999; 99WO-US031274.  
 PR 05-JAN-2000; 2000WO-US000219.  
 PR 06-JAN-2000; 2000WO-US000277.  
 PR 11-FEB-2000; 2000WO-US000376.  
 PR 18-FEB-2000; 2000WO-US003565.  
 PR 18-FEB-2000; 2000WO-US004341.  
 PR 22-FEB-2000; 2000WO-US004342.  
 PR 24-FEB-2000; 2000WO-US004414.  
 PR 24-FEB-2000; 2000WO-US004914.  
 PR 01-MAR-2000; 2000WO-US005004.  
 PR 02-MAR-2000; 2000WO-US005601.  
 PR 02-MAR-2000; 2000WO-US005746.  
 PR 10-MAR-2000; 2000WO-US005841.  
 PR 15-MAR-2000; 2000WO-US006319.  
 PR 20-MAR-2000; 2000WO-US006884.  
 PR 21-MAR-2000; 2000WO-US007377.  
 PR 10-MAR-2000; 2000WO-US007532.  
 PR 17-MAY-2000; 2000WO-US008439.  
 PR 22-MAY-2000; 2000WO-US013702.  
 PR 30-MAY-2000; 2000WO-US014042.  
 PR 30-MAY-2000; 2000WO-US014941.  
 PR 28-JUL-2000; 2000WO-US015264.  
 PR 11-AUG-2000; 2000WO-US020710.  
 PR 23-AUG-2000; 2000WO-US022031.  
 PR 24-AUG-2000; 2000WO-US023522.  
 PR 10-NOV-2000; 2000WO-US023328.  
 PR 08-NOV-2000; 2000WO-US030952.  
 PR 01-DEC-2000; 2000WO-US030873.  
 PR 01-DEC-2000; 2000WO-US032678.

PR 20-DEC-2000; 2000US-00747259.  
 PR 20-DEC-2000; 2000WO-US034956.  
 PR 28-FEB-2001; 2001US-00796498.  
 PR 28-FEB-2001; 2001WO-US006520.  
 PR 01-MAR-2001; 2001WO-US006666.  
 PR 09-MAR-2001; 2001US-00802706.  
 PR 14-MAR-2001; 2001US-00808689.  
 PR 22-MAR-2001; 2001US-00816744.  
 PR 05-APR-2001; 2001US-00828366.  
 PR 10-MAY-2001; 2001US-00854208.  
 PR 18-MAY-2001; 2001US-00860216.  
 PR 25-MAY-2001; 2001US-00866028.  
 PR 25-MAY-2001; 2001US-00866034.  
 PR 25-MAY-2001; 2001WO-US017092.  
 PR 01-JUN-2001; 2001US-00872035.  
 PR 01-JUN-2001; 2001WO-US017800.  
 PR 05-JUN-2001; 2001US-00874503.  
 PR 14-JUN-2001; 2001US-00882636.  
 PR 19-JUN-2001; 2001US-00886342.  
 PR 20-JUN-2001; 2001WO-US019692.  
 PR 21-JUN-2001; 2001US-00887879.  
 PR 22-JUN-2001; 2001WO-US020116.  
 PR 29-JUN-2001; 2001WO-US021066.  
 PR 09-JUL-2001; 2001WO-US021735.  
 PR 18-JUL-2001; 2001US-00908827.  
 PR 06-AUG-2001; 2001US-00924419.  
 PR 09-AUG-2001; 2001US-00927796.  
 PR 16-AUG-2001; 2001US-00931836.  
 PR 19-DEC-2001; 2001US-00028072.

(GETH ) GENENTECH INC.

Baker KP, Beresini M, Deforge L, Desnovers L, Filvaroff E, Gao W; Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S; Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;

WPI; 2003-466355/44.  
 N-FSDB; ACD41971.

New isolated nucleic acid encoding a PRO polypeptide, e.g. PRO1114 or PRO4978, useful in molecular biology, chromosome and gene mapping, in generating antisense RNA and DNA, and in gene therapy.

Claim 12; Fig 354; 659pp; English.

The invention relates to an isolated nucleic acid comprising at least 80% sequence identity to a PRO (secreted and transmembrane protein) cDNA comprising a nucleic acid (a) encoding a PRO polypeptide, or its extracellular domain (with or without its associated signal peptide), which comprises any of the 275 120-850 residue amino acid sequences, given in the specification; (b) comprising any of the 275 300-3500 nucleotide sequences, given in the specification; or (c) comprising the full-length coding sequence of the nucleotide sequences given in the specification, or of the DNA deposited under any of the American Type Culture Collection (ATCC) Accession Numbers listed in the specification. Also included are a vector comprising the novel nucleic acid, a host cell comprising the vector, producing a PRO polypeptide, the isolated PRO polypeptides detailed above, a chimeric molecule comprising the PRO polypeptide of fused to a heterologous amino acid sequence, an anti-PRO antibody, detecting a PRO polypeptide in a sample suspected of containing the PRO polypeptide, linking a bioactive molecule to a cell expressing a PRO polypeptide, modulating at least one biological activity of a cell expressing a PRO polypeptide, stimulating the release of tumour necrosis factor-alpha (TNF-alpha) from human blood, (or proteoglycans from cartilage or cytokine from peripheral blood mononuclear cells (PBMC)), modulating the uptake of glucose or FFA by skeletal muscle cells or adipocyte cells, stimulating the proliferation or differentiation of chondrocyte cells (or proliferation of or gene expression in pericyte cells), stimulating the proliferation of inner ear utricular supporting cells (or of T-lymphocyte cells, or of endothelial cells), inhibiting the binding of A-peptide to factor VIIA, or differentiation of adipocyte cells, detecting the presence of a tumour in a mammal and an

CC oligonucleotide probe derived from any of the nucleotide sequences given  
CC in the specification. The polynucleotide is useful in molecular biology,  
CC including uses as hybridisation probes, in chromosome and gene mapping,  
CC in generating antisense RNA and DNA, and in gene therapy. The  
CC polynucleotide may also be used in preparing PRO polypeptides by  
CC recombinant techniques, and in generating either transgenic animals or  
CC knock-out animals which, in turn, are useful in the development and  
CC screening of therapeutically useful reagents. The PRO polypeptide or the  
CC antibody is used in preparing a medicament for treating a condition  
CC responsive to the polypeptide or antibody, such as tumours, and in  
CC various diagnostic assays. The present sequence represents a PRO  
CC polypeptide  
XX  
SQ Sequence 696 AA;

Query Match 56.8%; Score 42; DB 6; Length 696;  
Best Local Similarity 63.6%; Pred. No. 67;  
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;  
Qy 4 GMALSKINLHN 14  
Db 493 GVSLSKLSLHN 503  
|:|||||:  
|:|||||:

RESULT 30  
ABU64514  
ID ABU64514 standard; protein; 696 AA.  
AC ABU64514;  
XX  
DT 13-MAY-2003 (first entry)  
XX  
DE Human secreted/transmembrane protein, #18.  
XX  
KW Human; PRO; secreted; transmembrane; pharmaceutical; diagnostic;  
KW biosensor; bioindicator; therapeutic; hyperplasia; endometriosis; cancer;  
KW tumour; ischaemia; coronary arterial disease; polycystic kidney disease;  
KW renal failure; inflammatory response; asthma; rheumatoid arthritis;  
KW psoriasis; multiple sclerosis; gene therapy; cytostatic; gynecological;  
KW cardiac; nephrotropic; hepatotropic; antiinflammatory.  
XX  
OS Homo sapiens.  
XX  
XX US2002160374-A1.  
XX  
XX 31-OCT-2002.  
XX  
XX 12-JUL-2001; 2001US-00905291.  
XX  
XX 17-SEP-1997; 97US-0059113P.  
XX 17-SEP-1997; 97US-0059115P.  
XX 17-SEP-1997; 97US-0059117P.  
XX 17-SEP-1997; 97US-0059119P.  
XX 17-SEP-1997; 97US-0059121P.  
XX 17-SEP-1997; 97US-0059122P.  
XX 17-SEP-1997; 97US-0059184P.  
XX 18-SEP-1997; 97US-0059263P.  
XX 18-SEP-1997; 97US-0059266P.  
XX 15-OCT-1997; 97US-0062125P.  
XX 17-OCT-1997; 97US-0062285P.  
XX 17-OCT-1997; 97US-0062287P.  
XX 21-OCT-1997; 97US-0063486P.  
XX 24-OCT-1997; 97US-0062814P.  
XX 24-OCT-1997; 97US-0063045P.  
XX 24-OCT-1997; 97US-0063120P.  
XX 24-OCT-1997; 97US-0063122P.  
XX 24-OCT-1997; 97US-0063127P.  
XX 24-OCT-1997; 97US-0063128P.  
XX 27-OCT-1997; 97US-0063327P.  
XX 27-OCT-1997; 97US-0063329P.  
XX 28-OCT-1997; 97US-0063541P.  
XX 28-OCT-1997; 97US-0063542P.

PR 28-OCT-1997; 97US-0063544P.  
PR 28-OCT-1997; 97US-0063549P.  
PR 28-OCT-1997; 97US-0063550P.  
PR 28-OCT-1997; 97US-0063564P.  
PR 28-OCT-1997; 97US-0063435P.  
PR 29-OCT-1997; 97US-0063704P.  
PR 29-OCT-1997; 97US-0063732P.  
PR 29-OCT-1997; 97US-0063734P.  
PR 29-OCT-1997; 97US-0063735P.  
PR 29-OCT-1997; 97US-0063738P.  
PR 29-OCT-1997; 97US-0064215P.  
PR 31-OCT-1997; 97US-0063870P.  
PR 31-OCT-1997; 97US-0064103P.  
PR 03-NOV-1997; 97US-0064248P.  
PR 07-NOV-1997; 97US-0064809P.  
PR 12-NOV-1997; 97US-0065186P.  
PR 17-NOV-1997; 97US-0065846P.  
PR 18-NOV-1997; 97US-0065693P.  
PR 21-NOV-1997; 97US-0066120P.  
PR 21-NOV-1997; 97US-0066364P.  
PR 24-NOV-1997; 97US-0066453P.  
PR 24-NOV-1997; 97US-0066466P.  
PR 24-NOV-1997; 97US-0066511P.  
PR 24-NOV-1997; 97US-0066770P.  
PR 24-NOV-1997; 97US-0066772P.  
PR 10-SEP-1998; 98WO-US019177.  
PR 14-SEP-1998; 98WO-US018824.  
PR 16-SEP-1998; 98WO-US019330.  
PR 17-SEP-1998; 98WO-US019437.  
PR 01-DEC-1998; 98WO-US025108.  
PR 08-SEP-1999; 99WO-US020594.  
PR 13-SEP-1999; 99WO-US020944.  
PR 15-SEP-1999; 99WO-US021090.  
PR 15-SEP-1999; 99WO-US021547.  
PR 05-OCT-1999; 99WO-US023089.  
PR 29-NOV-1999; 99WO-US028214.  
PR 30-NOV-1999; 99WO-US028313.  
PR 01-DEC-1999; 99WO-US028301.  
PR 02-DEC-1999; 99WO-US028564.  
PR 02-DEC-1999; 99WO-US028565.  
PR 16-DEC-1999; 99WO-US030095.  
PR 20-DEC-1999; 99WO-US030911.  
PR 20-DEC-1999; 99WO-US030999.  
PR 05-JAN-2000; 2000WO-US000219.  
PR 11-FEB-2000; 2000WO-US003565.  
PR 22-FEB-2000; 2000WO-US004414.  
PR 24-FEB-2000; 2000WO-US005004.  
PR 02-MAR-2000; 2000WO-US005841.  
PR 20-MAR-2000; 2000WO-US007377.  
PR 30-MAR-2000; 2000WO-US008439.  
PR 22-MAY-2000; 2000WO-US014042.  
PR 02-JUN-2000; 2000WO-US015264.  
PR 28-JUL-2000; 2000WO-US020710.  
PR 24-AUG-2000; 2000WO-US023328.  
PR 18-SEP-2000; 2000US-00665350.  
XX  
XX (GETH ) GENENTECH INC.  
XX  
XX Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;  
XX Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;  
XX Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kijavini IJ;  
XX Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;  
XX Williams PM, Wood WI;  
XX WPI; 2003-288105/28.  
XX N-PSDB; ABX96091.  
XX  
XX New secreted and transmembrane PRO polypeptides (e.g. PRO533 or PRO245)  
XX and genes encoding them, useful for detecting or treating e.g.  
XX hyperplasia, endometriosis, cancers, ischemia, coronary arterial disease  
XX or inflammations.  
XX  
XX Claim 12; Fig 34; 477pp; English.

Ferrara N;  
Goddard A;  
Hillan KJ;  
Kijavini IJ;  
Roy MA;  
Stewart TA;  
Tumas D;

XX The invention discloses isolated PRO secreted/transmembrane polypeptides  
CC and the nucleic acid encoding them. The polypeptides can be used to raise  
CC antibodies that specifically bind to the PRO polypeptide, for linking a  
CC bioactive molecule to a cell expressing a PRO protein and for modulating  
CC at least one biological activity of a cell. The PRO polypeptides or  
CC polynucleotides are also useful as pharmaceuticals, diagnostics,  
CC biosensors or bioreactors, for detecting or treating e.g. hyperplasia,  
CC endometriosis, cancers (e.g. those involving solid tumours), ischaemia,  
CC coronary arterial disease, polycystic kidney disease, chronic or acute  
CC renal failure, or inflammatory responses (e.g. asthma, rheumatoid  
CC arthritis, psoriasis or multiple sclerosis) in mammals. The PRO genes may  
CC also be used in gene therapy, particularly for replacing a defective  
CC gene. The sequences presented in ABU64499-ABU64559 are the PRO  
CC polynucleotides of the invention  
XX  
SQ Sequence 696 AA;

Query Match 56.8%; Score 42; DB 6; Length 696;  
Best Local Similarity 63.6%; Pred. No. 67;  
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;  
QY 4 GWSKSLNHN 14  
Db 493 GWSKSLNHN 503  
:::||||:|

RESULT 31  
ID ABU67360  
ABU67360 standard; protein; 696 AA.

XX AC ABU67360;  
XX 29-MAY-2003 (first entry)  
XX Human secreted protein PRO226.  
XX Human; gene therapy; mucosal lesion; ulcer; enterocolitis; skin disease;  
KW psoriasis; cancer; lung cancer; colon cancer; nerve cell disease;  
KW Alzheimer's disease; Parkinson's disease; Usher syndrome; angiogenesis;  
KW atrophla areata; inflammatory disease; asthma; rheumatoid arthritis;  
KW ischaemia.  
XX Homo sapiens.  
XX US2003023054-A1.  
XX 30-JAN-2003.  
XX 16-JUL-2001; 2001US-00906742.  
XX 17-SEP-1997; 97US-0059113P.  
XX 17-SEP-1997; 97US-0059115P.  
XX 17-SEP-1997; 97US-0059117P.  
XX 17-SEP-1997; 97US-0059119P.  
XX 17-SEP-1997; 97US-0059121P.  
XX 17-SEP-1997; 97US-0059122P.  
XX 18-SEP-1997; 97US-0059184P.  
XX 18-SEP-1997; 97US-0059263P.  
XX 15-OCT-1997; 97US-0059266P.  
XX 17-OCT-1997; 97US-0062125P.  
XX 17-OCT-1997; 97US-0062285P.  
XX 21-OCT-1997; 97US-0063486P.  
XX 24-OCT-1997; 97US-0062814P.  
XX 24-OCT-1997; 97US-0062816P.  
XX 24-OCT-1997; 97US-0063045P.  
XX 24-OCT-1997; 97US-0063120P.  
XX 24-OCT-1997; 97US-0063121P.  
XX 24-OCT-1997; 97US-0063127P.  
XX 27-OCT-1997; 97US-0063128P.  
XX 27-OCT-1997; 97US-0063327P.  
XX 27-OCT-1997; 97US-0063329P.

PR 28-OCT-1997; 97US-0063541P.  
PR 28-OCT-1997; 97US-0063542P.  
PR 28-OCT-1997; 97US-0063544P.  
PR 28-OCT-1997; 97US-0063549P.  
PR 28-OCT-1997; 97US-0063550P.  
PR 29-OCT-1997; 97US-0063564P.  
PR 29-OCT-1997; 97US-0063435P.  
PR 29-OCT-1997; 97US-0063704P.  
PR 29-OCT-1997; 97US-0063732P.  
PR 29-OCT-1997; 97US-0063734P.  
PR 29-OCT-1997; 97US-0063735P.  
PR 29-OCT-1997; 97US-0063738P.  
PR 29-OCT-1997; 97US-0064215P.  
PR 31-OCT-1997; 97US-0063870P.  
PR 31-OCT-1997; 97US-0064103P.  
PR 03-NOV-1997; 97US-0064248P.  
PR 07-NOV-1997; 97US-0064809P.  
PR 12-NOV-1997; 97US-0065186P.  
PR 17-NOV-1997; 97US-0065846P.  
PR 18-NOV-1997; 97US-0065693P.  
PR 21-NOV-1997; 97US-0065120P.  
PR 21-NOV-1997; 97US-0065364P.  
PR 24-NOV-1997; 97US-0066453P.  
PR 24-NOV-1997; 97US-0066466P.  
PR 24-NOV-1997; 97US-0066511P.  
PR 24-NOV-1997; 97US-0066770P.  
PR 24-NOV-1997; 97US-0066772P.  
PR 25-NOV-1997; 97US-0066840P.  
PR 04-JUN-1998; 97US-0069425P.  
PR 10-SEP-1998; 98US-0099803P.  
PR 10-SEP-1998; 98US-0099803P.  
PR 14-SEP-1998; 98US-0100262P.  
PR 14-SEP-1998; 98US-0100262P.  
PR 16-SEP-1998; 98US-0100858P.  
PR 17-SEP-1998; 98US-0100858P.  
PR 17-SEP-1998; 98US-0100858P.  
PR 13-OCT-1998; 98US-0104080P.  
PR 20-NOV-1998; 98US-0109304P.  
PR 01-DEC-1998; 98US-0109304P.  
PR 22-DEC-1998; 98US-0113298P.  
PR 07-JUL-1999; 99US-0143048P.  
PR 26-JUL-1999; 99US-0145698P.  
PR 28-JUL-1999; 99US-0146224P.  
PR 08-SEP-1999; 99US-0146224P.  
PR 13-SEP-1999; 99US-0146224P.  
PR 15-SEP-1999; 99US-0146224P.  
PR 15-SEP-1999; 99US-0146224P.  
PR 05-OCT-1999; 99US-0146224P.  
PR 29-NOV-1999; 99US-0146224P.  
PR 30-NOV-1999; 99US-0146224P.  
PR 01-DEC-1999; 99US-0146224P.  
PR 02-DEC-1999; 99US-0146224P.  
PR 02-DEC-1999; 99US-0146224P.  
PR 16-DEC-1999; 99US-0146224P.  
PR 20-DEC-1999; 99US-0146224P.  
PR 20-DEC-1999; 99US-0146224P.  
PR 05-JAN-2000; 2000US-0000219.  
PR 11-FEB-2000; 2000US-0000219.  
PR 22-FEB-2000; 2000US-0000219.  
PR 24-FEB-2000; 2000US-0000219.  
PR 02-MAR-2000; 2000US-0000219.  
PR 20-MAR-2000; 2000US-0000219.  
PR 30-MAR-2000; 2000US-0000219.  
PR 22-MAY-2000; 2000US-0000219.  
PR 02-JUN-2000; 2000US-0000219.  
PR 28-JUL-2000; 2000US-0000219.  
PR 28-AUG-2000; 2000US-0000219.  
PR 18-SEP-2000; 2000US-0000219.

(GETH ) GENENTECH INC.

Ashkenazi A, Botstein D, Deanoyers L, Eaton DL, Ferrara N;



PI Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;  
PI Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ;  
PI Mathers JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;  
PI Williams PM, Wood WI;  
XX WPI; 2003-331485/31.  
XX N-PSDB; ACA05412.  
XX Sixty one isolated nucleic acids encoding a PRO polypeptide, e.g. PRO245  
XX or PRO1869, useful in chromosome and gene mapping, in generating  
XX antisense RNA and DNA, and in treating cancer and Alzheimer's disease.  
XX Example 14; Fig 34; 481pp; English.  
XX The invention relates to sixty one nucleic acids encoding PRO  
XX polypeptides (secreted and transmembrane). The polynucleotide is useful  
XX in molecular biology, including uses as hybridisation probes, in  
XX chromosome and gene mapping, in generating antisense RNA and DNA, and in  
XX gene therapy. The polynucleotide may also be used in preparing PRO  
XX polypeptides by recombinant techniques, and in generating either  
XX transgenic animals or knock-out animals which, in turn, are useful in the  
XX development and screening of therapeutically useful reagents. The PRO  
XX polypeptide or the antibody is used in preparing a medicament for  
XX treating a condition responsive to the polypeptide or antibody, such as  
XX mucosal lesions e.g. ulcers and enterocolitis, skin disease e.g.  
XX psoriasis, cancer e.g. lung cancer and colon cancer, nerve cell disease  
XX e.g. Alzheimer's disease and Parkinson's disease, Usher syndrome,  
XX atrophila areata, angiogenesis, inflammatory disease e.g asthma and  
XX rheumatoid arthritis, ischaemia, and in various diagnostic assays. The  
XX present sequence represents the amino acid sequence of a PRO polypeptide  
XX Sequence 696 AA;  
XX  
XX Query Match 56.8%; Score 42; DB 6; Length 696;  
XX Best Local Similarity 63.6%; Pred. NO. 67;  
XX Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;  
XX  
XX Qy 4 GMALSKINLHN 14  
XX |::|::|::|::|  
XX Db 493 GVSLSKLSLHN 503  
XX  
XX RESULT 32  
XX ABO14880  
XX ID ABO14880 standard; protein; 696 AA.  
XX AC ABO14880;  
XX DT 25-AUG-2003 (first entry)  
XX DE Human secreted / transmembrane polypeptide PRO266.  
XX Human; gene therapy; tumour; tissue typing; obesity; arthritis; diabetes;  
XX hypocalcaemia; hyperinsulinaemia; vascular permeability;  
XX cardiac insufficiency disorder; immune response; regeneration; cartilage;  
XX auditory hair cell; hearing loss; bone disorder; sports injury.  
XX Homo sapiens.  
XX OS  
XX PN US2003036060-A1.  
XX PD 20-FEB-2003.  
XX  
XX PF 12-JUL-2001; 2001US-00904859.  
XX PR 17-SEP-1997; 97US-0059113P.  
XX PR 17-SEP-1997; 97US-0059113P.  
XX PR 17-SEP-1997; 97US-0059113P.  
XX PR 17-SEP-1997; 97US-0059113P.  
XX PR 17-SEP-1997; 97US-0059122P.  
XX PR 17-SEP-1997; 97US-0059122P.  
XX PR 17-SEP-1997; 97US-0059184P.  
XX PR 18-SEP-1997; 97US-0059263P.  
XX  
XX PR 18-SEP-1997; 97US-0059266P.  
XX PR 15-OCT-1997; 97US-0062125P.  
XX PR 17-OCT-1997; 97US-0062285P.  
XX PR 17-OCT-1997; 97US-0062287P.  
XX PR 21-OCT-1997; 97US-0063486P.  
XX PR 24-OCT-1997; 97US-0062816P.  
XX PR 24-OCT-1997; 97US-0063045P.  
XX PR 24-OCT-1997; 97US-0063120P.  
XX PR 24-OCT-1997; 97US-0063121P.  
XX PR 24-OCT-1997; 97US-0063127P.  
XX PR 24-OCT-1997; 97US-0063128P.  
XX PR 27-OCT-1997; 97US-0063327P.  
XX PR 27-OCT-1997; 97US-0063329P.  
XX PR 28-OCT-1997; 97US-0063541P.  
XX PR 28-OCT-1997; 97US-0063542P.  
XX PR 28-OCT-1997; 97US-0063544P.  
XX PR 28-OCT-1997; 97US-0063549P.  
XX PR 28-OCT-1997; 97US-0063550P.  
XX PR 28-OCT-1997; 97US-0063564P.  
XX PR 29-OCT-1997; 97US-0063435P.  
XX PR 29-OCT-1997; 97US-0063704P.  
XX PR 29-OCT-1997; 97US-0063732P.  
XX PR 29-OCT-1997; 97US-0063734P.  
XX PR 29-OCT-1997; 97US-0063735P.  
XX PR 29-OCT-1997; 97US-0063738P.  
XX PR 29-OCT-1997; 97US-0064215P.  
XX PR 31-OCT-1997; 97US-0063870P.  
XX PR 31-OCT-1997; 97US-0064103P.  
XX PR 03-NOV-1997; 97US-0064248P.  
XX PR 07-NOV-1997; 97US-0064809P.  
XX PR 12-NOV-1997; 97US-0065186P.  
XX PR 17-NOV-1997; 97US-0065846P.  
XX PR 18-NOV-1997; 97US-0065693P.  
XX PR 21-NOV-1997; 97US-0066120P.  
XX PR 21-NOV-1997; 97US-0066364P.  
XX PR 24-NOV-1997; 97US-0066453P.  
XX PR 24-NOV-1997; 97US-0066466P.  
XX PR 24-NOV-1997; 97US-0066511P.  
XX PR 24-NOV-1997; 97US-0066770P.  
XX PR 24-NOV-1997; 97US-0066772P.  
XX PR 25-NOV-1997; 97US-0066840P.  
XX PR 12-DEC-1997; 97US-0069425P.  
XX PR 04-JUN-1998; 98US-0088026P.  
XX PR 10-SEP-1998; 98US-0039803P.  
XX PR 10-SEP-1998; 98US-0100262P.  
XX PR 14-SEP-1998; 98US-0100262P.  
XX PR 16-SEP-1998; 98US-0100262P.  
XX PR 16-SEP-1998; 98US-0100262P.  
XX PR 17-SEP-1998; 98US-0100858P.  
XX PR 17-SEP-1998; 98US-0100858P.  
XX PR 13-OCT-1998; 98US-0104080P.  
XX PR 20-NOV-1998; 98US-0109304P.  
XX PR 01-DEC-1998; 98US-0109304P.  
XX PR 22-DEC-1998; 98US-0113296P.  
XX PR 07-JUL-1999; 99US-0143048P.  
XX PR 26-JUL-1999; 99US-0145698P.  
XX PR 28-JUL-1999; 99US-0146222P.  
XX PR 08-SEP-1999; 99US-0146222P.  
XX PR 13-SEP-1999; 99US-0146222P.  
XX PR 15-SEP-1999; 99US-0146222P.  
XX PR 15-SEP-1999; 99US-0146222P.  
XX PR 05-OCT-1999; 99US-0146222P.  
XX PR 29-NOV-1999; 99US-0146222P.  
XX PR 30-NOV-1999; 99US-0146222P.  
XX PR 01-DEC-1999; 99US-0146222P.  
XX PR 02-DEC-1999; 99US-0146222P.  
XX PR 16-DEC-1999; 99US-0146222P.  
XX PR 20-DEC-1999; 99US-0146222P.  
XX PR 20-DEC-1999; 99US-0146222P.  
XX PR 05-JAN-2000; 2000US-0000219.  
XX PR 11-FEB-2000; 2000US-0000219.

PR 22-FEB-2000; 2000WO-US004414.  
PR 24-FEB-2000; 2000WO-US005004.  
PR 02-MAR-2000; 2000WO-US005841.  
PR 20-MAR-2000; 2000WO-US007377.  
PR 20-MAR-2000; 2000WO-US008439.  
PR 22-MAY-2000; 2000WO-US014042.  
PR 02-JUN-2000; 2000WO-US015264.  
PR 28-JUL-2000; 2000WO-US020710.  
PR 24-AUG-2000; 2000WO-US023328.  
PR 18-SEP-2000; 2000US-00665350.  
XX (GETH) GENENTECH INC.  
XX  
XX Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;  
PI Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;  
PI Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin JI;  
PI Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;  
PI Williams EM, Wood WI;  
XX  
XX WPI; 2003-417923/39.  
DR N-PSDB; ACD20079.  
XX  
XX Novel secreted and transmembrane polypeptide for modulating biological  
PT activity of cell expressing the polypeptide, identifying agonists or  
PT antagonists of polypeptide, and as molecular weight markers.  
XX  
PS Claim 12; Fig 34; 469pp; English.  
XX  
CC The invention relates to an isolated, secreted and transmembrane  
CC polypeptide, termed PRO polypeptide. The polypeptide is useful for  
CC identifying agonists or antagonists of the polypeptide, for preparing  
CC variants of the polypeptide, as molecular weight markers for protein  
CC electrophoresis purposes and the nucleic acid is useful for recombinantly  
CC expressing those markers. The polypeptide is also useful as therapeutic  
CC agent. PRO is useful in assays to identify other proteins or molecules  
CC involved in binding interaction. The nucleic acid is useful as  
CC hybridisation probes, in chromosome and gene mapping, in generation of  
CC antisense RNA and DNA, in the preparation of PRO polypeptide, for  
CC generating transgenic animals or knockout animals which in turn are  
CC useful in the development and screening of therapeutically useful  
CC reagents, to construct hybridisation probes for mapping the gene which  
CC encodes the PRO and for the genetic analysis of individuals with genetic  
CC disorders, in gene therapy, for chromosome identification, as chromosome  
CC marker, and for generating probes for polymerase chain reaction (PCR).  
CC Northern analysis, Southern analysis and Western analysis. PRO antibody  
CC is useful in diagnostic assays for PRO, e.g. detecting its expression in  
CC specific cells, tissues or serum and for affinity purification of PRO  
CC from recombinant cell culture or natural sources. The polypeptide or its  
CC antibody is useful for the preparation of medicament for treating  
CC conditions which is responsive to the PRO polypeptide or anti-PRO  
CC antibody e.g. tumour. The polypeptide and the nucleic acid is useful for  
CC tissue typing. The polypeptide is useful for treating obesity, diabetes  
CC or hypo- or hyper-insulinaemia and cardiac insufficiency disorders, for  
CC inhibiting tumour growth, enhances vascular permeability and immune  
CC response, for inducing regeneration of auditory hair cells and for  
CC treating hearing loss in mammals and for treating bone and/or cartilage  
CC disorders such as sports injuries and arthritis. The present sequence  
CC represents the amino acid sequence of a human secreted and transmembrane  
CC PRO polypeptide  
XX  
SQ Sequence 696 AA;  
Query Match 56.8%; Score 42; DB 6; Length 696;  
Best Local Similarity 63.6%; Pred. No. 67;  
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;  
OY 4 GMAVSKINLN 14  
Db 493 GVSLSKSLN 503  
RESULT 33  
ABU67022

ID  
XX ABU67022 standard; protein; 696 AA.  
AC  
XX ABU67022;  
DT 27-MAY-2003 (first entry)  
XX  
DE Human secreted/transmembrane, PRO, protein SEQ ID 354.  
XX  
KW Human; secreted protein; transmembrane protein; PRO;  
KW inflammatory disease; organ failure; atherosclerosis; cardiac injury;  
KW infertility; birth defects; premature aging; AIDS; biosensor;  
KW acquired immunodeficiency syndrome; cancer; diabetic complication;  
KW bioreactor; tumour.  
XX  
XX Homo sapiens.  
XX  
XX US2003032155-A1.  
XX  
XX 13-FEB-2003.  
XX  
XX 03-MAY-2002; 2002US-00137865.  
XX  
XX 31-MAR-1997; 97WO-US005230.  
PR 12-JUN-1998; 98WO-US012456.  
PR 14-JUL-1998; 98WO-US014552.  
PR 28-AUG-1998; 98WO-US017888.  
PR 10-SEP-1998; 98WO-US018824.  
PR 14-SEP-1998; 98WO-US019093.  
PR 14-SEP-1998; 98WO-US019094.  
PR 14-SEP-1998; 98WO-US019177.  
PR 16-SEP-1998; 98WO-US019330.  
PR 17-SEP-1998; 98WO-US019437.  
PR 07-OCT-1998; 98WO-US021141.  
PR 29-OCT-1998; 98WO-US022991.  
PR 29-OCT-1998; 98WO-US022992.  
PR 20-NOV-1998; 98WO-US024855.  
PR 01-DEC-1998; 98WO-US025108.  
PR 05-JAN-1999; 99WO-US000106.  
PR 08-MAR-1999; 99WO-US005028.  
PR 10-MAR-1999; 99WO-US005190.  
PR 20-APR-1999; 99WO-US008615.  
PR 14-MAY-1999; 99WO-US010733.  
PR 02-JUN-1999; 99WO-US012252.  
PR 01-SEP-1999; 99WO-US020111.  
PR 08-SEP-1999; 99WO-US020594.  
PR 13-SEP-1999; 99WO-US020944.  
PR 15-SEP-1999; 99WO-US021090.  
PR 15-SEP-1999; 99WO-US021547.  
PR 05-OCT-1999; 99WO-US023089.  
PR 29-NOV-1999; 99WO-US028214.  
PR 30-NOV-1999; 99WO-US028313.  
PR 30-NOV-1999; 99WO-US028409.  
PR 01-DEC-1999; 99WO-US028301.  
PR 01-DEC-1999; 99WO-US028634.  
PR 02-DEC-1999; 99WO-US028551.  
PR 02-DEC-1999; 99WO-US028564.  
PR 02-DEC-1999; 99WO-US028565.  
PR 16-DEC-1999; 99WO-US030095.  
PR 20-DEC-1999; 99WO-US030911.  
PR 20-DEC-1999; 99WO-US030999.  
PR 22-DEC-1999; 99WO-US030720.  
PR 30-DEC-1999; 99WO-US031243.  
PR 30-DEC-1999; 99WO-US031274.  
PR 05-JAN-2000; 2000WO-US000219.  
PR 06-JAN-2000; 2000WO-US000277.  
PR 06-JAN-2000; 2000WO-US000376.  
PR 11-FEB-2000; 2000WO-US003565.  
PR 18-FEB-2000; 2000WO-US004361.  
PR 18-FEB-2000; 2000WO-US004341.  
PR 22-FEB-2000; 2000WO-US004342.  
PR 24-FEB-2000; 2000WO-US004414.  
PR 24-FEB-2000; 2000WO-US004914.  
PR 01-MAR-2000; 2000WO-US005601.

02-MAR-2000; 2000WO-US005746.  
 02-MAR-2000; 2000WO-US005841.  
 10-MAR-2000; 2000WO-US006319.  
 15-MAR-2000; 2000WO-US006884.  
 21-MAR-2000; 2000WO-US007377.  
 21-MAR-2000; 2000WO-US007532.  
 30-MAR-2000; 2000WO-US008439.  
 30-MAR-2000; 2000WO-US013705.  
 17-MAY-2000; 2000WO-US014042.  
 22-MAY-2000; 2000WO-US014941.  
 30-MAY-2000; 2000WO-US015264.  
 02-JUN-2000; 2000WO-US020710.  
 28-JUL-2000; 2000WO-US020731.  
 11-AUG-2000; 2000WO-US023522.  
 23-AUG-2000; 2000WO-US023328.  
 24-AUG-2000; 2000WO-US030952.  
 08-NOV-2000; 2000WO-US030873.  
 01-DEC-2000; 2000WO-US032678.  
 10-NOV-2000; 2000WO-US032678.  
 20-DEC-2000; 2000US-00747259.  
 20-DEC-2000; 2000WO-US034956.  
 28-FEB-2001; 2001US-00796498.  
 28-FEB-2001; 2001WO-US006520.  
 01-MAR-2001; 2001WO-US006666.  
 09-MAR-2001; 2001US-00802706.  
 14-MAR-2001; 2001US-00808689.  
 22-MAR-2001; 2001US-00816744.  
 05-APR-2001; 2001US-00828366.  
 10-MAY-2001; 2001US-00854208.  
 10-MAY-2001; 2001US-00854280.  
 18-MAY-2001; 2001US-00860216.  
 25-MAY-2001; 2001US-00866028.  
 25-MAY-2001; 2001US-00866034.  
 25-MAY-2001; 2001WO-US017092.  
 01-JUN-2001; 2001US-00872035.  
 01-JUN-2001; 2001WO-US017800.  
 05-JUN-2001; 2001US-00874503.  
 14-JUN-2001; 2001US-00882636.  
 19-JUN-2001; 2001US-00886342.  
 20-JUN-2001; 2001WO-US019692.  
 21-JUN-2001; 2001US-00887879.  
 22-JUN-2001; 2001WO-US020116.  
 29-JUN-2001; 2001WO-US021066.  
 09-JUL-2001; 2001WO-US021735.  
 18-JUL-2001; 2001US-00908827.  
 06-AUG-2001; 2001US-00924419.  
 09-AUG-2001; 2001US-00927796.  
 16-AUG-2001; 2001US-00931836.  
 19-DEC-2001; 2001US-00028072.

(GETH ) GENENTECH INC.  
 Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;  
 Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;  
 Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;  
 WPI; 2003-331925/31.  
 N-PSDB; ACA04200.

New secreted and transmembrane nucleic acids and polypeptides, designated as PRO, useful for treating inflammation, organ failure, atherosclerosis, cardiac injury, infertility, birth defects, premature aging, AIDS, or cancer.  
 Claim 12; Fig 354; 659pp; English.

The invention relates to an isolated nucleic acid comprising, or which is at least 80% identical to, or the full-length coding sequence of, any of the 275 nucleotide sequences, encoding the corresponding PRO polypeptide (one of 275 secreted or transmembrane proteins). The nucleic acid further comprises the full-length coding sequence of the DNA deposited under American Type Culture Collection (ATCC) accession number in a list given in the specification. Also included are vectors and host cells for producing PRO proteins, PRO fusion proteins, anti-PRO antibodies, PRO

extracellular domains and mature sequences, methods of detecting PRO proteins, methods for stimulating the release of TNF-alpha (tumour necrosis factor alpha) from human blood, (and the proliferation of differentiation of chondrocyte cells, the proliferation of, or gene expression in pericyte cells, the release or proteoglycans from cartilage, proliferation of inner ear articular supporting cells, the proliferation of T-lymphocyte cells (PBMC), or the proliferation of peripheral blood mononuclear cells (PBMC), or the uptake of glucose or free fatty acid (FFA) by skeletal muscle cells, a method for inhibiting the binding of A-peptide to factor VIIA, or the differentiation of adipocyte cells, a method for detecting the presence of a tumour in a mammal and an oligonucleotide probe derived from any of the nucleotide sequences cited above. The nucleic acids and polypeptides are useful for treating inflammatory diseases, organ failure, atherosclerosis, cardiac injury, infertility, birth defects, premature aging, AIDS (acquired immunodeficiency syndrome), cancer, or diabetic complications. The nucleic acids are useful as hybridisation probes, in chromosome and gene mapping, and in generating antisense RNA or DNA. The polypeptides are useful as pharmaceuticals, diagnostics, biosensors or bioreactors. Both are useful in tissue typing. The present sequence represents a PRO protein of the invention

## SQ Sequence 696 AA;

Query Match 56.8%; Score 42; DB 6; Length 696;  
 Best Local Similarity 63.6%; Pred. No. 67;  
 Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 4 GMALSKINLHN 14  
 |::|::|::|::|  
 Db 493 GVSLSKLSLHN 503

## RESULT 34

ABU69637  
 ID ABU69637 standard; protein; 696 AA.

XX AC ABU69637;

XX DT 05-JUN-2003 (first entry)

XX DE Novel human secreted and transmembrane protein PRO266.

XX KW Human; secreted and transmembrane protein; gene therapy; psoriasis; enterocolitis; gastrointestinal ulceration; skin disease;  
 KW keratinocyte differentiation; epithelial cancer; Alzheimer's disease;  
 KW squamous cell carcinoma; Parkinson's disease; inflammatory disease;  
 KW amyotrophic lateral sclerosis; rheumatoid arthritis; asthma;  
 KW multiple sclerosis; organ failure; atherosclerosis; cardiac injury;  
 KW infertility; birth defect; premature aging; AIDS; cancer;  
 KW diabetic complication; wound repair; tissue re-growth.

XX OS Homo sapiens.

XX PN US2003017463-A1.

XX PD 23-JAN-2003.

XX PF 11-JUL-2001; 2001US-00903640.

XX PR 17-SEP-1997; 97US-0059113P.

XX PR 17-SEP-1997; 97US-0059113P.

XX PR 17-SEP-1997; 97US-0059113P.

XX PR 17-SEP-1997; 97US-0059121P.

XX PR 17-SEP-1997; 97US-0059122P.

XX PR 17-SEP-1997; 97US-0059184P.

XX PR 18-SEP-1997; 97US-0059263P.

XX PR 18-SEP-1997; 97US-0059266P.

XX PR 15-OCT-1997; 97US-0062125P.

XX PR 17-OCT-1997; 97US-0062285P.

XX PR 17-OCT-1997; 97US-0062287P.

PR 21-OCT-1997; 97US-063486P.  
 PR 24-OCT-1997; 97US-062814P.  
 PR 24-OCT-1997; 97US-062816P.  
 PR 24-OCT-1997; 97US-063045P.  
 PR 24-OCT-1997; 97US-063120P.  
 PR 24-OCT-1997; 97US-063121P.  
 PR 24-OCT-1997; 97US-063127P.  
 PR 24-OCT-1997; 97US-063128P.  
 PR 27-OCT-1997; 97US-063327P.  
 PR 27-OCT-1997; 97US-063329P.  
 PR 28-OCT-1997; 97US-063341P.  
 PR 28-OCT-1997; 97US-063342P.  
 PR 28-OCT-1997; 97US-063344P.  
 PR 28-OCT-1997; 97US-063349P.  
 PR 28-OCT-1997; 97US-063350P.  
 PR 28-OCT-1997; 97US-063356P.  
 PR 28-OCT-1997; 97US-063359P.  
 PR 28-OCT-1997; 97US-063370P.  
 PR 28-OCT-1997; 97US-063372P.  
 PR 29-OCT-1997; 97US-063734P.  
 PR 29-OCT-1997; 97US-063735P.  
 PR 29-OCT-1997; 97US-063738P.  
 PR 29-OCT-1997; 97US-064215P.  
 PR 31-OCT-1997; 97US-064103P.  
 PR 03-NOV-1997; 97US-064248P.  
 PR 07-NOV-1997; 97US-064809P.  
 PR 12-NOV-1997; 97US-065186P.  
 PR 17-NOV-1997; 97US-065846P.  
 PR 18-NOV-1997; 97US-065693P.  
 PR 21-NOV-1997; 97US-066112P.  
 PR 21-NOV-1997; 97US-066364P.  
 PR 24-NOV-1997; 97US-066453P.  
 PR 24-NOV-1997; 97US-066466P.  
 PR 24-NOV-1997; 97US-066511P.  
 PR 24-NOV-1997; 97US-066770P.  
 PR 24-NOV-1997; 97US-066772P.  
 PR 25-NOV-1997; 97US-066840P.  
 PR 12-DEC-1997; 97US-068942P.  
 PR 04-JUN-1998; 98US-0088026P.  
 PR 10-SEP-1998; 98US-0099803P.  
 PR 14-SEP-1998; 98WO-US018824.  
 PR 14-SEP-1998; 98US-0100262P.  
 PR 14-SEP-1998; 98WO-US019177.  
 PR 16-SEP-1998; 98WO-US019330.  
 PR 17-SEP-1998; 98US-0100858P.  
 PR 17-SEP-1998; 98WO-US019437.  
 PR 13-OCT-1998; 98US-0104080P.  
 PR 20-NOV-1998; 98US-0109304P.  
 PR 01-DEC-1998; 98WO-US025108.  
 PR 22-DEC-1998; 98US-0113296P.  
 PR 07-JUL-1999; 98US-0143048P.  
 PR 26-JUL-1999; 98US-0145698P.  
 PR 28-JUL-1999; 98US-0146222P.  
 PR 08-SEP-1999; 99WO-US020594.  
 PR 13-SEP-1999; 99WO-US020944.  
 PR 15-SEP-1999; 99WO-US021090.  
 PR 15-SEP-1999; 99WO-US021547.  
 PR 05-OCT-1999; 99WO-US023089.  
 PR 28-NOV-1999; 99WO-US028214.  
 PR 30-NOV-1999; 99WO-US028313.  
 PR 01-DEC-1999; 99WO-US028501.  
 PR 02-DEC-1999; 99WO-US028564.  
 PR 02-DEC-1999; 99WO-US028565.  
 PR 16-DEC-1999; 99WO-US030095.  
 PR 20-DEC-1999; 99WO-US030911.  
 PR 20-DEC-1999; 99WO-US030999.  
 PR 05-JAN-2000; 2000WO-US000219.  
 PR 11-FEB-2000; 2000WO-US003565.  
 PR 22-FEB-2000; 2000WO-US004414.  
 PR 24-FEB-2000; 2000WO-US005004.  
 PR 02-MAR-2000; 2000WO-US005841.  
 PR 20-MAR-2000; 2000WO-US007377.

PR 30-MAR-2000; 2000WO-US008439.  
 PR 22-MAY-2000; 2000WO-US014042.  
 PR 02-JUN-2000; 2000WO-US015264.  
 PR 28-JUL-2000; 2000WO-US020710.  
 PR 24-AUG-2000; 2000WO-US023328.  
 PR 18-SEP-2000; 2000US-00665350.  
 XX (GETH ) GENENTECH INC.  
 XX 97US-063327P.  
 XX 97US-063329P.  
 PI Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;  
 PI Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;  
 PI Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kiljavin IJ;  
 PI Mather JP, Pan J, Paoni NF, Roy NA, Stewart TA, Tumas D;  
 PI Williams PM, Wood WI;  
 XX WPI; 2003-341586/32.  
 DR N-PSDB; ACAS4882.  
 XX 97US-063327P.  
 XX 97US-063329P.  
 PT New PRO polypeptides and nucleic acid molecules, useful in diagnosing or  
 PT treating inflammatory diseases, organ failure, atherosclerosis, cardiac  
 PT injury, infertility, cancer, AIDS, Alzheimer's disease or Parkinson's  
 PT disease.  
 XX Claim 12; Fig 34; 473pp; English.  
 XX The invention describes sixty one nucleic acids encoding PRO polypeptides  
 CC (secreted and transmembrane). The PRO polypeptides and nucleic acids are  
 CC useful in diagnosing or treating enterocolitis, gastrointestinal  
 CC ulceration, skin diseases associated with abnormal keratinocyte  
 CC differentiation, e.g. psoriasis or epithelial cancers such as squamous  
 CC cell carcinoma, Alzheimer's disease, Parkinson's disease, amyotrophic  
 CC lateral sclerosis, inflammatory diseases, e.g. rheumatoid arthritis,  
 CC asthma or multiple sclerosis, organ failure, atherosclerosis, cardiac  
 CC injury, infertility, birth defects, premature aging, AIDS, cancer,  
 CC diabetic complications, or mutations in general. The polypeptides are  
 CC also useful for wound repair and associated therapies concerned with re-  
 CC growth of tissue. The PRO polypeptides and nucleic acid molecules are re-  
 CC also useful in gene therapy, and as molecular weight markers for protein  
 CC electrophoresis purposes. The anti-PRO antibodies may be used in  
 CC diagnostic assays for PRO, or for the affinity purification of PRO from  
 CC recombinant cell culture or natural sources. This is the amino acid  
 CC sequence of a novel human PRO polypeptide  
 XX Sequence 696 AA;  
 SQ  
 Query Match 56.8%; Score 42; DB 6; Length 696;  
 Best Local Similarity 63.8%; Fred. No. 67;  
 Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;  
 QY 4 GWALSKINLHN 14  
 Db 493 GVSLSKLSLHN 503  
 RESULT 35  
 ABO14819  
 ID ABO14819 standard; protein; 696 AA.  
 XX  
 AC ABO14819;  
 XX  
 DT 22-AUG-2003 (first entry)  
 XX  
 DE Human secreted / transmembrane polypeptide PRO266.  
 XX  
 XX Human; ss, gene therapy; apoptosis; bleeding; tumour; ALS;  
 KW Gynaecological disease; hysterectomy; angiogenesis; skin disease; cancer;  
 KW coronary ischaemic condition; gastro-intestinal mucosa disorder; asthma;  
 KW mucosal lesion repair; keratinocyte differentiation; psoriasis;  
 KW Parkinson's disease; Alzheimer's disease; amyotrophic lateral sclerosis;  
 KW neuropathy; blood coagulation cascade disorder; thrombosis; haemorrhage;  
 KW neurodegenerative disease; endometrial bleeding; wound healing;  
 KW tissue repair; rheumatoid arthritis; multiple sclerosis; tissue typing.  
 XX



Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GNALSKINLHN 14  
|:||||:|

Db 493 GVSLSKLSLHN 503

RESULT 36  
ADA45873  
ID ADA45873 standard; protein; 696 AA.  
XX  
AC ADA45873;  
XX  
DT 20-NOV-2003 (first entry)  
XX  
DE Novel human secreted and transmembrane protein PRO266.  
XX  
KW Human; secreted and transmembrane protein; PRO;  
KW Tumour necrosis factor alpha release; TNF-alpha release;  
KW Glucose uptake modulator; FFA uptake modulator;  
KW cell proliferation stimulator; cell differentiation stimulator;  
KW cell differentiation inhibitor; cytokine release stimulator; tumour;  
KW lung tumour; colon tumour; breast tumour; prostate tumour; rectal tumour;  
KW cervical tumour; liver tumour; chromosome mapping; gene mapping;  
KW gene therapy; chromosome identification; chromosome marker.  
XX  
OS Homo sapiens.  
XX  
XX US2003022328-A1.  
XX  
XX 30-JAN-2003.  
XX  
XX 16-APR-2002; 2002US-00123904.  
XX  
XX 31-MAR-1997; 97WO-US005230.  
XX 12-JUN-1998; 98WO-US012456.  
XX 14-JUL-1998; 98WO-US014552.  
XX 28-AUG-1998; 98WO-US017888.  
XX 10-SEP-1998; 98WO-US018824.  
XX 14-SEP-1998; 98WO-US019093.  
XX 14-SEP-1998; 98WO-US019094.  
XX 14-SEP-1998; 98WO-US019177.  
XX 16-SEP-1998; 98WO-US019330.  
XX 17-SEP-1998; 98WO-US019437.  
XX 07-OCT-1998; 98WO-US021141.  
XX 29-OCT-1998; 98WO-US022991.  
XX 29-OCT-1998; 98WO-US022992.  
XX 20-NOV-1998; 98WO-US024855.  
XX 01-DEC-1998; 98WO-US025108.  
XX 05-JAN-1999; 99WO-US000106.  
XX 08-MAR-1999; 99WO-US005028.  
XX 10-MAR-1999; 99WO-US005130.  
XX 20-APR-1999; 99WO-US008615.  
XX 14-MAY-1999; 99WO-US010733.  
XX 02-JUN-1999; 99WO-US012252.  
XX 01-SEP-1999; 99WO-US020111.  
XX 08-SEP-1999; 99WO-US020594.  
XX 13-SEP-1999; 99WO-US020944.  
XX 15-SEP-1999; 99WO-US021090.  
XX 15-SEP-1999; 99WO-US021547.  
XX 05-OCT-1999; 99WO-US023089.  
XX 29-NOV-1999; 99WO-US028214.  
XX 30-NOV-1999; 99WO-US028313.  
XX 30-NOV-1999; 99WO-US028409.  
XX 01-DEC-1999; 99WO-US028301.  
XX 01-DEC-1999; 99WO-US028634.  
XX 02-DEC-1999; 99WO-US028551.  
XX 02-DEC-1999; 99WO-US028564.  
XX 02-DEC-1999; 99WO-US028565.  
XX 16-DEC-1999; 99WO-US030095.  
XX 20-DEC-1999; 99WO-US030911.  
XX 20-DEC-1999; 99WO-US030999.  
XX 22-DEC-1999; 99WO-US030720.

PR 30-DEC-1999; 99WO-US031243.  
PR 30-DEC-1999; 99WO-US031274.  
PR 05-JAN-2000; 2000WO-US000215.  
PR 06-JAN-2000; 2000WO-US000277.  
PR 06-JAN-2000; 2000WO-US000376.  
PR 11-FEB-2000; 2000WO-US003565.  
PR 18-FEB-2000; 2000WO-US004341.  
PR 18-FEB-2000; 2000WO-US004342.  
PR 22-FEB-2000; 2000WO-US004414.  
PR 24-FEB-2000; 2000WO-US004914.  
PR 24-FEB-2000; 2000WO-US005004.  
PR 01-MAR-2000; 2000WO-US005601.  
PR 02-MAR-2000; 2000WO-US005746.  
PR 02-MAR-2000; 2000WO-US005841.  
PR 10-MAR-2000; 2000WO-US006319.  
PR 15-MAR-2000; 2000WO-US006884.  
PR 20-MAR-2000; 2000WO-US007377.  
PR 21-MAR-2000; 2000WO-US007532.  
PR 10-MAR-2000; 2000WO-US008439.  
PR 17-MAY-2000; 2000WO-US013705.  
PR 22-MAY-2000; 2000WO-US014042.  
PR 30-MAY-2000; 2000WO-US014941.  
PR 02-JUN-2000; 2000WO-US015264.  
PR 28-JUL-2000; 2000WO-US020710.  
PR 11-AUG-2000; 2000WO-US022031.  
PR 23-AUG-2000; 2000WO-US023522.  
PR 24-AUG-2000; 2000WO-US023328.  
PR 08-NOV-2000; 2000WO-US030952.  
PR 10-NOV-2000; 2000WO-US030873.  
PR 01-DEC-2000; 2000WO-US032678.  
PR 20-DEC-2000; 2000US-00747259.  
PR 20-DEC-2000; 2000WO-US034956.  
PR 28-FEB-2001; 2001US-00796498.  
PR 28-FEB-2001; 2001WO-US006520.  
PR 01-MAR-2001; 2001WO-US006666.  
PR 09-MAR-2001; 2001US-00802706.  
PR 14-MAR-2001; 2001US-00808689.  
PR 22-MAR-2001; 2001US-00816744.  
PR 05-APR-2001; 2001US-00828366.  
PR 10-MAY-2001; 2001US-00854208.  
PR 10-MAY-2001; 2001US-00854280.  
PR 18-MAY-2001; 2001US-00860216.  
PR 23-MAY-2001; 2001US-00866028.  
PR 25-MAY-2001; 2001US-00866034.  
PR 25-MAY-2001; 2001WO-US017092.  
PR 01-JUN-2001; 2001US-00872035.  
PR 01-JUN-2001; 2001WO-US017800.  
PR 05-JUN-2001; 2001US-00874503.  
PR 14-JUN-2001; 2001US-00882636.  
PR 19-JUN-2001; 2001US-00886342.  
PR 20-JUN-2001; 2001WO-US019692.  
PR 21-JUN-2001; 2001US-00887879.  
PR 22-JUN-2001; 2001WO-US020116.  
PR 29-JUN-2001; 2001WO-US021066.  
PR 09-JUL-2001; 2001WO-US021735.  
PR 18-JUL-2001; 2001US-00908827.  
PR 06-AUG-2001; 2001US-00924419.  
PR 09-AUG-2001; 2001US-00927796.  
PR 16-AUG-2001; 2001US-00931836.  
PR 13-DEC-2001; 2001US-00028072.  
XX  
(GETH ) GENENTECH INC.  
XX  
BA Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;  
FI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;  
FI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;  
XX  
WPI; 2003-584997/55.  
XX  
N-PSDB; ADA45872.  
XX  
Novel secreted and transmembrane polypeptide for modulating biological  
activity of cell expressing the polypeptide, identifying agonists or  
antagonists of polypeptide, and as molecular weight markers.  
PT

XX Claim 12; Fig 354; 659pp; English.

XX The invention describes 305 nucleic acids encoding PRO (secreted and

XX transmembrane) polypeptides (I). (I) is useful for stimulating the

CC release of TNF-alpha from human blood, for modulating the uptake of

CC glucose or FFA by skeletal muscle cells or adipocyte cells, for

CC stimulating the proliferation or differentiation of chondrocyte cells,

CC for stimulating the proliferation of or gene expression in pericyte

CC cells, for stimulating the release of proteoglycans from cartilage, for

CC stimulating the proliferation of inner ear utricular supporting cells,

CC for stimulating the proliferation of T-lymphocyte cells, for stimulating

CC the release of a cytokine from PBM cells, for inhibiting the binding of

CC A-peptide to factor VIIa, for inhibiting the differentiation of adipocyte

CC cells, for stimulating proliferation of endothelial cells, for detecting

CC the presence of tumour in a mammal. The tumour is lung, colon, breast,

CC prostate, rectal, cervical or liver tumour. The oligonucleotide probes

CC are useful for isolating genomic and cDNA nucleotide sequences or

CC antisense probes. (I) is also useful as therapeutic agent. PRO is useful

CC in assays to identify other proteins or molecules involved in binding

CC and gene mapping, in generation of antisense RNA and DNA, in the

CC preparation of PRO polypeptide, for generating transgenic animals or

CC knockout animals which in turn are useful in the development and

CC screening of therapeutically useful reagents, in gene therapy, for

CC chromosome identification, as chromosome marker, and for generating

CC probes. An anti-(I)-antibody is useful in diagnostic assays for PRO, e.g.

CC detecting its expression in specific cells, tissues or serum, and for

CC affinity purification of PRO from recombinant cell culture or natural

CC sources. (I) and (II) are useful for tissue typing. This is the amino

CC acid sequence of a novel human secreted and transmembrane PRO

XX polypeptide.

SQ Sequence 696 AA;

Query Match 56.8%; Score 42; DB 6; Length 696;

Best Local Similarity 63.6%; Pred. No. 67;

Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 4 GMALSKINLHN 14

Db 493 GVSLSKLSLHN 503

RESULT 37

ADA76304

ID ADA76304 standard; protein; 696 AA.

XX AC ADA76304;

XX DT 20-NOV-2003 (first entry)

XX DE Human PRO polypeptide #177.

XX KW Human; PRO; secreted polypeptide; transmembrane polypeptide;

KW tumour necrosis factor-alpha; TNF-alpha; chondrocyte cell; tumour;

KW cancer; adrenal; lung; colon; breast; prostate; rectum; kidney; cervix;

KW liver; microvascular endothelial cell; glucose; FFA;

KW skeletal muscle cell; adipocyte cell; pericyte cell;

KW inner ear utricular supporting cell; T-lymphocyte cell;

KW endothelial cell tube formation; bone disorder; cartilage disorder;

KW sports injury; proteoglycan; articular cartilage defect; osteoarthritis;

KW rheumatoid arthritis; haemoglobin-associated disorder thalassaemia;

KW immune system cell infiltration.

XX OS Homo sapiens.

XX US2003073212-A1.

PN 17-APR-2003.

PD 16-APR-2002; 2002US-00123903.

PP 2001WO-US006520.

XX

PR 31-MAR-1997; 97WO-US005230.

PR 12-JUN-1998; 98WO-US012456.

PR 14-JUL-1998; 98WO-US014552.

PR 28-AUG-1998; 98WO-US017888.

PR 10-SEP-1998; 98WO-US018824.

PR 14-SEP-1998; 98WO-US019093.

PR 14-SEP-1998; 98WO-US019094.

PR 14-SEP-1998; 98WO-US019177.

PR 16-SEP-1998; 98WO-US019330.

PR 17-SEP-1998; 98WO-US019437.

PR 07-OCT-1998; 98WO-US021141.

PR 29-OCT-1998; 98WO-US022991.

PR 29-OCT-1998; 98WO-US022992.

PR 20-NOV-1998; 98WO-US024855.

PR 01-DEC-1998; 98WO-US025108.

PR 05-JAN-1999; 99WO-US000106.

PR 08-MAR-1999; 99WO-US005028.

PR 10-MAR-1999; 99WO-US005190.

PR 20-APR-1999; 99WO-US008615.

PR 14-MAY-1999; 99WO-US010733.

PR 02-JUN-1999; 99WO-US012252.

PR 01-SEP-1999; 99WO-US020111.

PR 08-SEP-1999; 99WO-US020594.

PR 13-SEP-1999; 99WO-US020944.

PR 15-SEP-1999; 99WO-US021090.

PR 15-SEP-1999; 99WO-US021547.

PR 05-OCT-1999; 99WO-US023089.

PR 29-NOV-1999; 99WO-US028214.

PR 30-NOV-1999; 99WO-US028313.

PR 30-NOV-1999; 99WO-US028409.

PR 01-DEC-1999; 99WO-US028301.

PR 01-DEC-1999; 99WO-US028634.

PR 02-DEC-1999; 99WO-US028551.

PR 02-DEC-1999; 99WO-US028564.

PR 16-DEC-1999; 99WO-US028565.

PR 20-DEC-1999; 99WO-US030911.

PR 20-DEC-1999; 99WO-US030999.

PR 22-DEC-1999; 99WO-US030720.

PR 30-DEC-1999; 99WO-US031243.

PR 30-DEC-1999; 99WO-US031274.

PR 05-JAN-2000; 2000WO-US000219.

PR 06-JAN-2000; 2000WO-US000277.

PR 11-FEB-2000; 2000WO-US000376.

PR 11-FEB-2000; 2000WO-US003565.

PR 18-FEB-2000; 2000WO-US004341.

PR 18-FEB-2000; 2000WO-US004342.

PR 22-FEB-2000; 2000WO-US004414.

PR 24-FEB-2000; 2000WO-US004914.

PR 24-FEB-2000; 2000WO-US005004.

PR 01-MAR-2000; 2000WO-US005601.

PR 02-MAR-2000; 2000WO-US005746.

PR 02-MAR-2000; 2000WO-US005841.

PR 10-MAR-2000; 2000WO-US006319.

PR 15-MAR-2000; 2000WO-US006884.

PR 20-MAR-2000; 2000WO-US007377.

PR 21-MAR-2000; 2000WO-US007532.

PR 30-MAR-2000; 2000WO-US008439.

PR 17-MAY-2000; 2000WO-US013705.

PR 22-MAY-2000; 2000WO-US014042.

PR 30-MAY-2000; 2000WO-US014941.

PR 02-JUN-2000; 2000WO-US015264.

PR 28-JUL-2000; 2000WO-US020710.

PR 11-AUG-2000; 2000WO-US020231.

PR 23-AUG-2000; 2000WO-US023522.

PR 24-AUG-2000; 2000WO-US023328.

PR 08-NOV-2000; 2000WO-US030952.

PR 10-NOV-2000; 2000WO-US030873.

PR 01-DEC-2000; 2000WO-US032678.

PR 20-DEC-2000; 2000WO-US034956.

PR 28-FEB-2001; 2001US-00796498.

PR 28-FEB-2001; 2001WO-US006520.





PR 29-OCT-1997; 97US-0063735P.  
 PR 29-OCT-1997; 97US-0063738P.  
 PR 29-OCT-1997; 97US-0064215P.  
 PR 31-OCT-1997; 97US-0063870P.  
 PR 31-OCT-1997; 97US-0064103P.  
 PR 03-NOV-1997; 97US-0064248P.  
 PR 07-NOV-1997; 97US-0064809P.  
 PR 12-NOV-1997; 97US-0065186P.  
 PR 17-NOV-1997; 97US-0065846P.  
 PR 18-NOV-1997; 97US-0065693P.  
 PR 21-NOV-1997; 97US-0066120P.  
 PR 21-NOV-1997; 97US-0066364P.  
 PR 24-NOV-1997; 97US-0066453P.  
 PR 24-NOV-1997; 97US-0066466P.  
 PR 24-NOV-1997; 97US-0066511P.  
 PR 24-NOV-1997; 97US-0066770P.  
 PR 25-NOV-1997; 97US-0066772P.  
 PR 25-NOV-1997; 97US-0066840P.  
 PR 12-DEC-1997; 97US-0069425P.  
 PR 04-JUN-1998; 98US-0088028P.  
 PR 10-SEP-1998; 98US-0099803P.  
 PR 10-SEP-1998; 98WO-US018824.  
 PR 14-SEP-1998; 98US-0100262P.  
 PR 14-SEP-1998; 98WO-US019177.  
 PR 16-SEP-1998; 98WO-US019330.  
 PR 17-SEP-1998; 98US-0100858P.  
 PR 17-SEP-1998; 98WO-US019437.  
 PR 13-OCT-1998; 98US-0104080P.  
 PR 20-NOV-1998; 98US-0109304P.  
 PR 01-DEC-1998; 98WO-US025108.  
 PR 22-DEC-1998; 98US-0113298P.  
 PR 07-JUL-1999; 99US-0143048P.  
 PR 26-JUL-1999; 99US-0145698P.  
 PR 08-JUL-1999; 99US-0146222P.  
 PR 08-SEP-1999; 99WO-US020594.  
 PR 13-SEP-1999; 99WO-US020944.  
 PR 15-SEP-1999; 99WO-US021090.  
 PR 15-SEP-1999; 99WO-US021547.  
 PR 05-OCT-1999; 99WO-US023089.  
 PR 29-NOV-1999; 99WO-US028214.  
 PR 30-NOV-1999; 99WO-US028313.  
 PR 01-DEC-1999; 99WO-US028301.  
 PR 02-DEC-1999; 99WO-US028564.  
 PR 02-DEC-1999; 99WO-US028565.  
 PR 16-DEC-1999; 99WO-US030095.  
 PR 20-DEC-1999; 99WO-US030911.  
 PR 20-DEC-1999; 99WO-US030999.  
 PR 05-JAN-2000; 2000WO-US000219.  
 PR 11-FEB-2000; 2000WO-US003565.  
 PR 22-FEB-2000; 2000WO-US004414.  
 PR 24-FEB-2000; 2000WO-US005044.  
 PR 02-MAR-2000; 2000WO-US005841.  
 PR 20-MAR-2000; 2000WO-US007377.  
 PR 30-MAR-2000; 2000WO-US008439.  
 PR 22-MAY-2000; 2000WO-US014042.  
 PR 02-JUN-2000; 2000WO-US015264.  
 PR 28-JUL-2000; 2000WO-US020710.  
 PR 24-AUG-2000; 2000WO-US023328.  
 PR 18-SEP-2000; 2000US-00665350.  
 XX (GETH ) GENENTECH INC.  
 PA  
 XX Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;  
 PI Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;  
 PI Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, KJavin IJ;  
 PI Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;  
 PI Williams PM, Wood WI;  
 XX WPI; 2003-765473/72.  
 DR N-PSDB; ADB29295.  
 XX  
 PT Novel isolated native PRO polypeptide useful for treating Parkinson's  
 PT disease, enterocolitis, Zollinger-Ellison syndrome gastrointestinal

PT ulceration, Alzheimer's disease, amyotrophic lateral sclerosis, Usher  
 PT syndrome.

XX Claim 12; Fig 34; 469pp; English.

XX The invention discloses isolated PRO secreted/transmembrane polypeptides  
 CC and the nucleic acid encoding them. The polypeptides can be used to raise  
 CC antibodies that specifically bind to the PRO polypeptide, for linking a  
 CC bioactive molecule to a cell expressing a PRO protein and for modulating  
 CC at least one biological activity of a cell. PRO polypeptides are useful  
 CC for detecting other PRO polypeptides in a sample and for linking a  
 CC bioactive molecule to a cell expressing a PRO polypeptide. The PRO  
 CC polypeptide antibodies are useful for modulating the biological activity  
 CC of a cell expressing PRO polypeptides. PRO polypeptides are also useful  
 CC for treating disorders associated with the preservation and maintenance  
 CC of gastrointestinal mucosa and the repair of acute and chronic mucosal  
 CC lesions, skin diseases associated with abnormal keratinocyte  
 CC differentiation (e.g. psoriasis), Parkinson's disease, Alzheimer's  
 CC diseases, amyotrophic lateral sclerosis (ALS), neuropathies and  
 CC additionally, disease related to uncontrolled cell growth, e.g. cancer.  
 CC PRO polypeptides also serves as tumour specific antigens which may be  
 CC exploited as therapeutic targets for anti-tumour drugs, and are also  
 CC employed therapeutically in vivo for lessening the effects of viral  
 CC infection. The PRO polypeptides can be also used in assays to determine  
 CC if it has a role in neurodegenerative diseases or their reversal, as an  
 CC antithrombotic agent with reduced risk for haemorrhage as compared with  
 CC heparin, in treating other PRO-associated disorders, in modulating  
 CC endometrial bleeding angiogenesis, and may also have an effect on kidney  
 CC tissue. PRO polypeptides and their portions affect the expression of  
 CC genes which have a role in apoptosis. The polynucleotides are useful in  
 CC molecular biology including uses as hybridisation probes for cDNA library  
 CC to isolate the full-length PRO cDNA or to isolate other cDNAs, in  
 CC chromosome and gene mapping, in the generation of antisense RNA and DNA,  
 CC for preparing PRO polypeptides, for generating transgenic animals or  
 CC knockout animals which are useful in the development and screening of  
 CC therapeutically useful reagents, as probes and for the genetic analysis  
 CC of individuals with genetic disorders as well as for recombinantly  
 CC expressing the protein and for chromosome identification. The proteins  
 CC are useful as molecular marker for protein electrophoresis purposes, as  
 CC therapeutic agents, for screening compounds to identify those that mimic  
 CC the PRO polypeptide (agonists) or prevent the effect of the PRO  
 CC polypeptide (antagonists). The polynucleotides and proteins are useful  
 CC for tissue typing. PRO antibodies are useful for immunohistochemical  
 CC staining and/or assay of sample fluids. Anti-PRO antibodies are useful in  
 CC diagnostic assays for PRO e.g. detecting its expression in specific  
 CC cells, tissues or serum and for affinity purification of PRO from  
 CC recombinant cell culture or natural sources. The PRO genes may also be  
 CC used in gene therapy, particularly for replacing a defective gene. The  
 CC sequence presented is a PRO polynucleotide of the invention.

XX Sequence 696 AA;

Query Match 56.8%; Score 42; DB 6; Length 696;  
 Best Local Similarity 63.6%; Pred. No. 67;  
 Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 4 GMALSKINLHN 14  
 |::|::|::|::|  
 Db 493 GVSLSKLSLHN 503

RESULT 39

ADA18954  
 ID ADA18954 standard; protein; 696 AA.

XX AC ADA18954;

XX DT 20-NOV-2003 (first entry)

XX DE Human PRO polypeptide #177.

XX KW Human; PRO; secreted polypeptide; transmembrane polypeptide;  
 KW tumour necrosis factor-alpha; TNF-alpha; blood; chondrocyte cell; lung;



CC cartilage, for stimulating the proliferation of inner ear utricular  
CC supporting cells, for stimulating the release of cytokines from PBMC  
CC cells, for inhibiting the binding of A-peptide to factor VIIA, for  
CC inhibiting the differentiation of adipocyte cells and for stimulating the  
CC proliferation of endothelial cells. This sequence represents a human PRO  
CC polypeptide of the invention. Note: The sequence data for this patent is  
CC also available in electronic format from USPTO at  
CC seqdata.uspto.gov/sequence.html.  
XX  
SQ

Sequence 696 AA;  
Query Match 56.8%; Score 42; DB 6; Length 696;  
Best Local Similarity 63.6%; Pred. No. 67;  
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GMALSKINLHN 14  
Db 493 GVSLSKLSLHN 503

RESULT 40  
ADA61577  
ID ADA61577 standard; protein; 696 AA.

XX ADA61577;  
AC  
XX  
DT 20-NOV-2003 (first entry)  
XX  
DE Homo sapiens.

XX Human; secreted and transmembrane protein; PRO;  
KW Tumour necrosis factor alpha release; TNF-alpha release;  
KW glucose uptake modulator; FFA uptake modulator;  
KW cell proliferation stimulator; cell differentiation stimulator;  
KW cell differentiation inhibitor; cytokine release stimulator; tumour;  
KW lung tumour; colon tumour; breast tumour; prostate tumour; rectal tumour;  
KW cervical tumour; liver tumour; chromosome mapping; gene mapping;  
KW gene therapy; chromosome identification; chromosome marker.

XX Novel.  
OS human.  
OS secreted.  
OS and.  
OS transmembrane.  
OS protein.  
OS PRO266.

PN US2003049816-A1.

XX 13-MAR-2003.

XX 15-APR-2002; 2002US-00123262.

XX 31-MAR-1997; 97WO-US005230.  
PR 12-JUN-1998; 98WO-US012456.  
PR 14-JUL-1998; 98WO-US014552.  
PR 28-AUG-1998; 98WO-US017888.  
PR 10-SEP-1998; 98WO-US018824.  
PR 14-SEP-1998; 98WO-US019093.  
PR 14-SEP-1998; 98WO-US019094.  
PR 14-SEP-1998; 98WO-US019177.  
PR 16-SEP-1998; 98WO-US019330.  
PR 17-SEP-1998; 98WO-US019437.  
PR 07-OCT-1998; 98WO-US021141.  
PR 29-OCT-1998; 98WO-US022992.  
PR 29-OCT-1998; 98WO-US024855.  
PR 20-NOV-1998; 98WO-US025108.  
PR 01-DEC-1998; 98WO-US025109.  
PR 05-JAN-1999; 99WO-US000106.  
PR 08-MAR-1999; 99WO-US005028.  
PR 10-MAR-1999; 99WO-US005190.  
PR 20-APR-1999; 99WO-US008615.  
PR 14-MAY-1999; 99WO-US010733.

PR 02-JUN-1999; 99WO-US012252.  
PR 01-SEP-1999; 99WO-US020111.  
PR 08-SEP-1999; 99WO-US020594.  
PR 13-SEP-1999; 99WO-US020944.  
PR 15-SEP-1999; 99WO-US021090.  
PR 15-SEP-1999; 99WO-US021547.  
PR 05-OCT-1999; 99WO-US023089.  
PR 29-NOV-1999; 99WO-US028214.  
PR 30-NOV-1999; 99WO-US028313.  
PR 30-NOV-1999; 99WO-US028409.  
PR 01-DEC-1999; 99WO-US028301.  
PR 01-DEC-1999; 99WO-US028634.  
PR 02-DEC-1999; 99WO-US028551.  
PR 02-DEC-1999; 99WO-US028564.  
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PR 16-DEC-1999; 99WO-US030095.  
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PR 18-FEB-2000; 2000WO-US004341.  
PR 18-FEB-2000; 2000WO-US004342.  
PR 22-FEB-2000; 2000WO-US004414.  
PR 24-FEB-2000; 2000WO-US004914.  
PR 24-FEB-2000; 2000WO-US005004.  
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PR 02-MAR-2000; 2000WO-US005746.  
PR 02-MAR-2000; 2000WO-US005841.  
PR 10-MAR-2000; 2000WO-US006319.  
PR 15-MAR-2000; 2000WO-US006884.  
PR 20-MAR-2000; 2000WO-US007377.  
PR 21-MAR-2000; 2000WO-US007532.  
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PR 17-MAY-2000; 2000WO-US013705.  
PR 22-MAY-2000; 2000WO-US014042.  
PR 30-MAY-2000; 2000WO-US014941.  
PR 02-JUN-2000; 2000WO-US015264.  
PR 28-JUL-2000; 2000WO-US020710.  
PR 11-AUG-2000; 2000WO-US022031.  
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PR 08-NOV-2000; 2000WO-US030952.  
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PR 28-FEB-2001; 2001WO-US006520.  
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PR 25-MAY-2001; 2001US-00866034.  
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PR 09-JUL-2001; 2001WO-US021735.  
PR 18-JUL-2001; 2001US-00908827.  
PR 06-AUG-2001; 2001US-00924419.  
PR 09-AUG-2001; 2001US-00927796.  
PR 16-AUG-2001; 2001US-00931836.  
PR 19-DEC-2001; 2001US-00028072.  
XX  
XX (GETH ) GENENTECH INC.  
XX  
XX Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W;  
PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;  
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;  
XX  
XX WPI: 2003-695892/66.  
XX N-PSDB; ADA61576.  
XX  
XX  
XX New PRO nucleic acid and encode polypeptides, are useful for  
PT manufacturing a medicament for diagnosing or treating cancer.  
XX  
XX  
XX Claim 12, Fig 354; 660pp; English.  
XX  
XX The invention describes 305 nucleic acids encoding PRO (secreted and  
CC transmembrane) polypeptides (I). (I) is useful for stimulating the  
CC release of TNF-alpha from human blood, for modulating the uptake of  
CC glucose or FFA by skeletal muscle cells or adipocyte cells, for  
CC stimulating the proliferation or differentiation of chondrocyte cells,  
CC for stimulating the proliferation of or gene expression in pericyte  
CC cells, for stimulating the release of proteoglycans from cartilage, for  
CC stimulating the proliferation of inner ear utricular supporting cells,  
CC for stimulating the proliferation of T-lymphocyte cells, for stimulating  
CC the release of a cytokine from PBMC cells, for inhibiting the binding of  
CC A-peptide to factor VIIA, for inhibiting the differentiation of adipocyte  
CC cells, for stimulating proliferation of endothelial cells, for detecting  
CC the presence of tumour in a mammal. The tumour is lung, colon, breast,  
CC prostate, rectal, cervical or liver tumour. The oligonucleotide probes  
CC are useful for isolating genomic and cDNA nucleotide sequences or  
CC antisense probes. (I) is also useful as therapeutic agent. PRO is useful  
CC in assays to identify other proteins or molecules involved in binding  
CC interaction. A polynucleotide (II) encoding (I) is useful in chromosome  
CC and gene mapping, in generation of antisense RNA and DNA, in the  
CC preparation of PRO polypeptide, for generating transgenic animals or  
CC knockout animals which in turn are useful in the development and  
CC screening of therapeutically useful reagents, in gene therapy, for  
CC chromosome identification, as chromosome marker, and for generating  
CC probes. An anti-(I)-antibody is useful in diagnostic assays for PRO, e.g.  
CC detecting its expression in specific cells, tissues or serum, and for  
CC affinity purification of PRO from recombinant cell culture or natural  
CC sources. (I) and (II) are useful for tissue typing. This is the amino  
CC acid sequence of a novel human secreted and transmembrane PRO  
CC polypeptide.  
XX  
XX  
SQ Sequence 696 AA;  
Query Match 56.8%; Score 42; DB 6; Length 696;  
Best Local Similarity 63.6%; Pred. No. 67;  
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;  
QY 4 GWAISKINLHN 14  
Db 493 GVSLSKSLHN 503  
|:|||||:|||||  
Search completed: May 13, 2006, 08:10:06  
Job time : 190 secs



## ALIGNMENTS

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RESULT 1
US-10-769-514-17
; Sequence 17, Application US/10769514
; Publication No. US20040258695A1
; GENERAL INFORMATION:
; APPLICANT: Schryvers, Anthony
; TITLE OF INVENTION: Transferrin Binding Peptides and Uses Thereof
; FILE REFERENCE: 028722-001
; CURRENT APPLICATION NUMBER: US/10/769,514
; CURRENT FILING DATE: 2004-01-30
; PRIOR APPLICATION NUMBER: US 60/444,113
; PRIOR FILING DATE: 2003-01-31
; NUMBER OF SEQ ID NOS: 86
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 14
; TYPE: PRT
; ORGANISM: M. catarrhalis
US-10-769-514-17

Query Match      100.0%; Score 74; DB 5; Length 14;
Best Local Similarity 100.0%; Pred. No. 2.9e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 MGYGMALSKINLHN 14
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Db      1 MGYGMALSKINLHN 14

RESULT 2
US-10-769-514-15
; Sequence 15, Application US/10769514
; Publication No. US20040258695A1
; GENERAL INFORMATION:
; APPLICANT: Schryvers, Anthony
; TITLE OF INVENTION: Transferrin Binding Peptides and Uses Thereof
; FILE REFERENCE: 028722-001
; CURRENT APPLICATION NUMBER: US/10/769,514
; CURRENT FILING DATE: 2004-01-30
; PRIOR APPLICATION NUMBER: US 60/444,113
; PRIOR FILING DATE: 2003-01-31
; NUMBER OF SEQ ID NOS: 86
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 15
; TYPE: PRT
; ORGANISM: M. catarrhalis
US-10-769-514-15

Query Match      100.0%; Score 74; DB 5; Length 15;
Best Local Similarity 100.0%; Pred. No. 3.2e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 MGYGMALSKINLHN 14
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Db      1 MGYGMALSKINLHN 14

RESULT 3
US-10-769-514-16
; Sequence 16, Application US/10769514
; Publication No. US20040258695A1
; GENERAL INFORMATION:
; APPLICANT: Schryvers, Anthony
; TITLE OF INVENTION: Transferrin Binding Peptides and Uses Thereof
; FILE REFERENCE: 028722-001
; CURRENT APPLICATION NUMBER: US/10/769,514
; CURRENT FILING DATE: 2004-01-30
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; PRIOR APPLICATION NUMBER: US 60/444,113
; PRIOR FILING DATE: 2003-01-31
; NUMBER OF SEQ ID NOS: 86
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 15
; TYPE: PRT
; ORGANISM: M. catarrhalis
US-10-769-514-16

Query Match      100.0%; Score 74; DB 5; Length 15;
Best Local Similarity 100.0%; Pred. No. 3.2e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 MGYGMALSKINLHN 14
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Db      2 MGYGMALSKINLHN 15

RESULT 4
US-10-425-115-367739
; Sequence 367739, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 367739
; LENGTH: 64
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_98550C.1.pep
US-10-425-115-367739

Query Match      59.5%; Score 44; DB 4; Length 64;
Best Local Similarity 72.7%; Pred. No. 3.6;
Matches 8; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      2 GYGMALSKINL 12
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Db      17 GYGYISKINL 27

RESULT 5
US-10-424-599-250435
; Sequence 250435, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovalic, David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 250435
; LENGTH: 71
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_68170C.1.pep
US-10-424-599-250435
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; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,320
; PRIOR FILING DATE: 2002-01-04
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-909-320-91

Query Match 56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GWALSKINLHN 14
Db 493 GVSLSKLSLHN 503

RESULT 10
US-09-909-088B-91
; Sequence 91, Application US/09909088B
; Patent No. US20020146709A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
```

```

; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,088B
; PRIOR FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
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; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-909-088B-91

Query Match 56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GWALSKINLHN 14
Db 493 GVSLSKLSLHN 503

RESULT 11
US-09-905-291A-91
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Fri May 19 14:23:23 2006

; Sequence 91, Application US/09905291A  
; Patent No. US20020160374A1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnovers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Acids Encoding and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/905,291A  
; CURRENT FILING DATE: 2001-07-12  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08  
; PRIOR APPLICATION NUMBER: PCT/US99/20944  
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; PRIOR APPLICATION NUMBER: PCT/US99/21090  
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; PRIOR APPLICATION NUMBER: PCT/US99/21547  
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; PRIOR APPLICATION NUMBER: PCT/US99/23089  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: PCT/US99/28214  
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; PRIOR APPLICATION NUMBER: PCT/US99/28313  
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; PRIOR APPLICATION NUMBER: PCT/US99/28564  
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; PRIOR APPLICATION NUMBER: PCT/US99/28565  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
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; PRIOR APPLICATION NUMBER: PCT/US99/30911  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US99/30999  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US00/00219  
; PRIOR FILING DATE: 2000-01-05  
; NUMBER OF SEQ ID NOS: 423  
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; LENGTH: 696  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-905-291A-91

Query Match 56.8%; Score 42; DB 3; Length 696;  
Best Local Similarity 63.6%; Pred. No. 1.le+02;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
Qy 4 GMAISKINLHN 14  
|:|:|:|:|:|:|  
Db 493 GVSLSKLSLHN 503  
  
RESULT 12  
US-09-902-853-91  
; Sequence 91, Application US/09902853  
; Publication No. US20020192659A1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnovers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Acids Encoding and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/902,853  
; CURRENT FILING DATE: 2001-07-10  
; PRIOR APPLICATION NUMBER: US/09/665,350  
; PRIOR FILING DATE: 2000-09-18  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
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; PRIOR APPLICATION NUMBER: PCT/US99/23089  
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; PRIOR FILING DATE: 1999-12-16

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; PRIOR APPLICATION NUMBER: PCT/US99/30911
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; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-902-853-91

Query Match          56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      4 GMALSKINLHN 14
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Db      493 GVSLSKLSLHN 503

RESULT 13
US-09-907-824-91
; Sequence 91, Application US/09907824
; Publication No. US20020197671A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavitt, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,824
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
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; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-907-824-91

Query Match          56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      4 GMALSKINLHN 14
       |:|:|:|:|:|
Db      493 GVSLSKLSLHN 503

RESULT 14
US-09-907-841-91
; Sequence 91, Application US/09907841
; Publication No. US20020198366A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijavitt, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,841
; CURRENT FILING DATE: 2001-11-20
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
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; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-907-841-91

Query Match      56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      4 GMALSKINLHN 14
      |::|::|::|
DB      493 GVSLSKLSLHN 503

RESULT 15
US-09-904-011-91
; Sequence 91, Application US/09904011
; Publication No. US2003000350A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas P.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,011
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
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; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-904-011-91

Query Match      56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      4 GMALSKINLHN 14
      |::|::|::|
DB      493 GVSLSKLSLHN 503

RESULT 16
US-09-903-640-91
; Sequence 91, Application US/09903640
; Publication No. US20030017463A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
```

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; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/903,640
; PRIOR FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: 09/665,350
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-903-640-91

Query Match      56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      4  GMAISKINLHN 14
      |::|||::|||
Db      493  GVSLSKLSLHN 503

RESULT 17
US-09-908-093-91
; Sequence 91, Application US/09908093
; Publication No. US20030017498A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/908,093
; PRIOR FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222

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; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-908-093-91

Query Match      56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      4  GMAISKINLHN 14
      |::|||::|||
Db      493  GVSLSKLSLHN 503

RESULT 18
US-09-908-742-91
; Sequence 91, Application US/09906742
; Publication No. US2003002054A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.

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;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
;; FILE REFERENCE: 10466-14  
;; CURRENT APPLICATION NUMBER: US/09/906,742  
;; CURRENT FILING DATE: 2001-07-16  
;; PRIOR APPLICATION NUMBER: 09/665,350  
;; PRIOR FILING DATE: 2000-09-18  
;; PRIOR APPLICATION NUMBER: PCT/US00/04414  
;; PRIOR FILING DATE: 2000-02-22  
;; PRIOR APPLICATION NUMBER: US 60/143,048  
;; PRIOR FILING DATE: 1999-07-07  
;; PRIOR APPLICATION NUMBER: US 60/145,698  
;; PRIOR FILING DATE: 1999-07-26  
;; PRIOR APPLICATION NUMBER: US 60/146,222  
;; PRIOR FILING DATE: 1999-07-28  
;; PRIOR APPLICATION NUMBER: PCT/US99/20594  
;; PRIOR FILING DATE: 1999-09-08  
;; PRIOR APPLICATION NUMBER: PCT/US99/20944  
;; PRIOR FILING DATE: 1999-09-13  
;; PRIOR APPLICATION NUMBER: PCT/US99/21090  
;; PRIOR FILING DATE: 1999-09-15  
;; PRIOR APPLICATION NUMBER: PCT/US99/21547  
;; PRIOR FILING DATE: 1999-09-15  
;; PRIOR APPLICATION NUMBER: PCT/US99/23089  
;; PRIOR FILING DATE: 1998-10-05  
;; PRIOR APPLICATION NUMBER: PCT/US99/28214  
;; PRIOR FILING DATE: 1999-11-29  
;; PRIOR APPLICATION NUMBER: PCT/US99/28313  
;; PRIOR FILING DATE: 1998-11-30  
;; PRIOR APPLICATION NUMBER: PCT/US99/28564  
;; PRIOR FILING DATE: 1999-12-02  
;; PRIOR APPLICATION NUMBER: PCT/US99/28565  
;; PRIOR FILING DATE: 1999-12-02  
;; PRIOR APPLICATION NUMBER: PCT/US99/30095  
;; PRIOR FILING DATE: 1999-12-16  
;; PRIOR APPLICATION NUMBER: PCT/US99/30911  
;; PRIOR FILING DATE: 1999-12-20  
;; PRIOR APPLICATION NUMBER: PCT/US99/30999  
;; PRIOR FILING DATE: 1999-12-20  
;; PRIOR APPLICATION NUMBER: PCT/US00/00219  
;; PRIOR FILING DATE: 2000-01-05  
;; NUMBER OF SEQ ID NOS: 423  
;; SEQ ID NO 91  
;; LENGTH: 696  
;; TYPE: PRT  
;; ORGANISM: Homo Sapien  
US-09-906-742-91

Query Match 56.8%; Score 42; DB 3; Length 696;  
Best Local Similarity 63.6%; Pred. No. 1.1e+02; Mismatches 4; Indels 0; Gaps 0;  
Matches 7; Conservative 0;

QY 4 GMALSKINLHN 14  
Db 493 GWSLSKLSLHN 503

RESULT 19  
US-09-906-838-91  
; Sequence 91, Application US/09906838  
; Publication No. US20030027143A1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Pong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hannpeter  
; APPLICANT: Gerritsen, Mary E.

;; APPLICANT: Goddard, A.  
;; APPLICANT: Godowski, Paul J.  
;; APPLICANT: Grimaldi, Christopher J.  
;; APPLICANT: Gurney, Austin L.  
;; APPLICANT: Hillan, Kenneth, J.  
;; APPLICANT: Kljavin, Ivar J.  
;; APPLICANT: Mather, Jennie P.  
;; APPLICANT: Pan, James  
;; APPLICANT: Paoni, Nicholas P.  
;; APPLICANT: Roy, Margaret Ann  
;; APPLICANT: Stewart, Timothy A.  
;; APPLICANT: Tumas, Daniel  
;; APPLICANT: Williams, P. Mickey  
;; APPLICANT: Wood, William, I.  
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
;; TITLE OF INVENTION: Acids Encoding the Same  
;; FILE REFERENCE: 10466-14  
;; CURRENT APPLICATION NUMBER: US/09/906,838  
;; CURRENT FILING DATE: 2001-07-16  
;; PRIOR APPLICATION NUMBER: 09/665,350  
;; PRIOR FILING DATE: 2000-09-18  
;; PRIOR APPLICATION NUMBER: PCT/US00/04414  
;; PRIOR FILING DATE: 2000-02-22  
;; PRIOR APPLICATION NUMBER: US 60/143,048  
;; PRIOR FILING DATE: 1999-07-07  
;; PRIOR APPLICATION NUMBER: US 60/145,698  
;; PRIOR FILING DATE: 1999-07-26  
;; PRIOR APPLICATION NUMBER: US 60/146,222  
;; PRIOR FILING DATE: 1999-07-28  
;; PRIOR APPLICATION NUMBER: PCT/US99/20594  
;; PRIOR FILING DATE: 1999-09-08  
;; PRIOR APPLICATION NUMBER: PCT/US99/20944  
;; PRIOR FILING DATE: 1999-09-13  
;; PRIOR APPLICATION NUMBER: PCT/US99/21090  
;; PRIOR FILING DATE: 1999-09-15  
;; PRIOR APPLICATION NUMBER: PCT/US99/21547  
;; PRIOR FILING DATE: 1999-09-15  
;; PRIOR APPLICATION NUMBER: PCT/US99/23089  
;; PRIOR FILING DATE: 1999-10-05  
;; PRIOR APPLICATION NUMBER: PCT/US99/28214  
;; PRIOR FILING DATE: 1999-11-29  
;; PRIOR APPLICATION NUMBER: PCT/US99/28313  
;; PRIOR FILING DATE: 1999-11-30  
;; PRIOR APPLICATION NUMBER: PCT/US99/28564  
;; PRIOR FILING DATE: 1999-12-02  
;; PRIOR APPLICATION NUMBER: PCT/US99/28565  
;; PRIOR FILING DATE: 1999-12-02  
;; PRIOR APPLICATION NUMBER: PCT/US99/30095  
;; PRIOR FILING DATE: 1999-12-16  
;; PRIOR APPLICATION NUMBER: PCT/US99/30911  
;; PRIOR FILING DATE: 1999-12-20  
;; PRIOR APPLICATION NUMBER: PCT/US99/30999  
;; PRIOR FILING DATE: 1999-12-20  
;; PRIOR APPLICATION NUMBER: PCT/US00/00219  
;; PRIOR FILING DATE: 2000-01-05  
;; NUMBER OF SEQ ID NOS: 423  
;; SEQ ID NO 91  
;; LENGTH: 696  
;; TYPE: PRT  
;; ORGANISM: Homo Sapien  
US-09-906-838-91

Query Match 56.8%; Score 42; DB 3; Length 696;  
Best Local Similarity 63.6%; Pred. No. 1.1e+02; Mismatches 4; Indels 0; Gaps 0;  
Matches 7; Conservative 0;

QY 4 GMALSKINLHN 14  
Db 493 GWSLSKLSLHN 503

RESULT 20  
US-09-907-613-91

Sequence 91, Application US/09907613  
Publication No. US20030027145A1  
GENERAL INFORMATION:  
APPLICANT: Genentech, Inc.  
APPLICANT: Ashkenazi, Avi  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Fong, Sherman  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, A.  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, Christopher J.  
APPLICANT: Gurney, Austin L.  
APPLICANT: Hillan, Kenneth, J.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Mather, Jennie P.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Williams, P. Mickey  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: 10466-14  
CURRENT APPLICATION NUMBER: US/09/907,613  
PRIOR FILING DATE: 2001-07-17  
PRIOR APPLICATION NUMBER: PCT/US00/04414  
PRIOR FILING DATE: 2000-02-22  
PRIOR APPLICATION NUMBER: US 60/143,048  
PRIOR FILING DATE: 1999-07-07  
PRIOR APPLICATION NUMBER: US 60/145,698  
PRIOR FILING DATE: 1999-07-26  
PRIOR APPLICATION NUMBER: US 60/146,222  
PRIOR FILING DATE: 1999-07-28  
PRIOR APPLICATION NUMBER: PCT/US99/20594  
PRIOR FILING DATE: 1999-09-08  
PRIOR APPLICATION NUMBER: PCT/US99/20944  
PRIOR FILING DATE: 1999-09-13  
PRIOR APPLICATION NUMBER: PCT/US99/21090  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/21547  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/23089  
PRIOR FILING DATE: 1999-10-05  
PRIOR APPLICATION NUMBER: PCT/US99/28214  
PRIOR FILING DATE: 1999-11-29  
PRIOR APPLICATION NUMBER: PCT/US99/28313  
PRIOR FILING DATE: 1999-11-30  
PRIOR APPLICATION NUMBER: PCT/US99/28564  
PRIOR FILING DATE: 1999-12-02  
PRIOR APPLICATION NUMBER: PCT/US99/28565  
PRIOR FILING DATE: 1999-12-02  
PRIOR APPLICATION NUMBER: PCT/US99/30095  
PRIOR FILING DATE: 1999-12-16  
PRIOR APPLICATION NUMBER: PCT/US99/30911  
PRIOR FILING DATE: 1999-12-20  
PRIOR APPLICATION NUMBER: PCT/US99/30999  
PRIOR FILING DATE: 1999-12-20  
PRIOR APPLICATION NUMBER: PCT/US00/00219  
NUMBER OF SEQ ID NOS: 423  
SEQ ID NO 91  
LENGTH: 696  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-907-613-91

Query Match 56.8%; Score 42; DB 3; Length 696;  
Best Local Similarity 63.8%; Pred. No. 1.1e+02;  
Matches 7; Conservative 4; Mismatches 0; Indels 0; Caps 0;  
QY 4 GMAISKINLNH 14  
DB 493 GVSLSKLSLNH 503  
RESULT 21  
US-09-907-942-91  
Sequence 91, Application US/09907942  
Publication No. US20030027146A1  
GENERAL INFORMATION:  
APPLICANT: Genentech, Inc.  
APPLICANT: Ashkenazi, Avi  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Fong, Sherman  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, A.  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, Christopher J.  
APPLICANT: Gurney, Austin L.  
APPLICANT: Hillan, Kenneth, J.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Mather, Jennie P.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William, I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: 10466-14  
CURRENT APPLICATION NUMBER: US/09/907,942  
PRIOR FILING DATE: 2002-01-22  
PRIOR APPLICATION NUMBER: PCT/US00/04414  
PRIOR FILING DATE: 2000-02-22  
PRIOR APPLICATION NUMBER: US 60/143,048  
PRIOR FILING DATE: 1999-07-07  
PRIOR APPLICATION NUMBER: US 60/145,698  
PRIOR FILING DATE: 1999-07-26  
PRIOR APPLICATION NUMBER: US 60/146,222  
PRIOR FILING DATE: 1999-07-28  
PRIOR APPLICATION NUMBER: PCT/US99/20594  
PRIOR FILING DATE: 1999-09-08  
PRIOR APPLICATION NUMBER: PCT/US99/20944  
PRIOR FILING DATE: 1999-09-13  
PRIOR APPLICATION NUMBER: PCT/US99/21090  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/21547  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/23089  
PRIOR FILING DATE: 1999-10-05  
PRIOR APPLICATION NUMBER: PCT/US99/28214  
PRIOR FILING DATE: 1999-11-29  
PRIOR APPLICATION NUMBER: PCT/US99/28313  
PRIOR FILING DATE: 1999-11-30  
PRIOR APPLICATION NUMBER: PCT/US99/28564  
PRIOR FILING DATE: 1999-12-02  
PRIOR APPLICATION NUMBER: PCT/US99/28565  
PRIOR FILING DATE: 1999-12-02  
PRIOR APPLICATION NUMBER: PCT/US99/30095  
PRIOR FILING DATE: 1999-12-16

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; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-907-942-91

Query Match          56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      4 GMALSKINLHN 14
Db      493 GVSLSKLSLHN 503

RESULT 22
US-09-904-859-91
; Sequence 91, Application US/09904859
; Publication No. US20030036060A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,859
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-904-859-91

Query Match          56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      4 GMALSKINLHN 14
Db      493 GVSLSKLSLHN 503

RESULT 23
US-09-909-204-91
; Sequence 91, Application US/09909204
; Publication No. US20030036061A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/909,204
; CURRENT FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
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; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-909-204-91
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Query Match 56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GMALEKINLHN 14
Db 493 GVSLSKLSLHN 503
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RESULT 24
US-09-904-820-91
; Sequence 91, Application US/09904820
; Publication No. US20030036094A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
```

```
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tamas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,820
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-904-820-91

Query Match 56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GMALEKINLHN 14
Db 493 GVSLSKLSLHN 503

RESULT 25
US-09-904-786-91
; Sequence 91, Application US/09904786
; Publication No. US20030039969A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
```



```
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas P.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,786
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-904-786-91

Query Match 56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 4 GVALSKINLHN 14
Db 493 GVSLSKLSLHN 503

RESULT 26
US-09-906-646-91
; Sequence 91, Application US/09906646
; Publication No. US20030039971A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas P.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
```

```
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,646
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-906-646-91

Query Match 56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 4 GVALSKINLHN 14
Db 493 GVSLSKLSLHN 503

RESULT 27
US-09-906-700-91
; Sequence 91, Application US/09906700
; Publication No. US20030039972A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
```



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Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
QY 4 GWALSKINLHN 14
Db 493 GVSLSKLSLHN 503

RESULT 29
US-09-902-903-91
; Sequence 91, Application US/09902903
; Publication No. US2003004839A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999

Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
QY 4 GWALSKINLHN 14
Db 493 GVSLSKLSLHN 503

Query Match 56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
QY 4 GWALSKINLHN 14
Db 493 GVSLSKLSLHN 503

US-09-902-903-91
; ORGANISM: Homo sapiens
; TYPE: PRT
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-902-903-91

RESULT 30
US-09-903-749A-91
; Sequence 91, Application US/09903749A
; Publication No. US20030045693A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
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; PRIOR FILING DATE: 1999-11-29  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: 1999-11-30  
; PRIOR APPLICATION NUMBER: PCT/US99/28564  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/28565  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: 1999-12-16  
; PRIOR APPLICATION NUMBER: PCT/US99/30911  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US99/30999  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US00/00219  
; PRIOR FILING DATE: 2000-01-05  
; NUMBER OF SEQ ID NOS: 423  
; SEQ ID NO 91  
; LENGTH: 696  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-903-749A-91

Query Match 56.8%; Score 42; DB 3; Length 696;  
Best Local Similarity 63.6%; Pred. No. 1.1e+02;  
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GWALSKINLHN 14  
|::|::|::|::|  
Db 493 GWSLSKLSLHN 503

RESULT 31  
US-09-904-119-91  
; Sequence 91, Application US/09904119  
; Publication No. US20030049621A1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: KJavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/904,119  
; CURRENT FILING DATE: 2001-07-11  
; PRIOR APPLICATION NUMBER: 09/665,350  
; PRIOR FILING DATE: 2000-09-18  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698

; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08  
; PRIOR APPLICATION NUMBER: PCT/US99/20944  
; PRIOR FILING DATE: 1999-09-13  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/21547  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/23089  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: PCT/US99/28214  
; PRIOR FILING DATE: 1999-11-29  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: 1999-11-30  
; PRIOR APPLICATION NUMBER: PCT/US99/28564  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/28565  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: 1999-12-16  
; PRIOR APPLICATION NUMBER: PCT/US99/30911  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US99/30999  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US00/00219  
; PRIOR FILING DATE: 2000-01-05  
; NUMBER OF SEQ ID NOS: 423  
; SEQ ID NO 91  
; LENGTH: 696  
; TYPE: PRT  
; ORGANISM: Homo Sapien  
US-09-904-119-91

Query Match 56.8%; Score 42; DB 3; Length 696;  
Best Local Similarity 63.6%; Pred. No. 1.1e+02;  
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GWALSKINLHN 14  
|::|::|::|::|  
Db 493 GWSLSKLSLHN 503

RESULT 32  
US-09-904-956-91  
; Sequence 91, Application US/09904956  
; Publication No. US20030049622A1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: KJavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumaas, Daniel

```

; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,956
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-904-956-91

Query Match          56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      4  GWALSKINLHN 14
Db      493  GWSLSKLSLHN 503

RESULT 33
US-09-902-736-91
; Sequence 91, Application US/09902736
; Publication No. US20030049676A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,736
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-902-736-91

Query Match          56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY      4  GWALSKINLHN 14
Db      493  GWSLSKLSLHN 503

RESULT 34
US-09-907-794-91
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; Sequence 91, Application US/09907794
; Publication, No. US20030049677A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,794
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT

; ORGANISM: Homo Sapien
; US-09-907-794-91
;
; Query Match 56.8%; Score 42; DB 3; Length 696;
; Best Local Similarity 63.6%; Pred. No. 1,1e+02;
; Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
;
; Qy 4 GMAUSKINLHN 14
; Db 493 GVSLSKJSLHN 503
;
; RESULT 35
; US-09-903-943-91
; Sequence 91, Application US/09903943
; Publication NO. US20030054349A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/903,943
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
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; PRIOR APPLICATION NUMBER: PCT/US99/28565  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: 1999-12-16  
; PRIOR APPLICATION NUMBER: PCT/US99/30911  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US99/30999  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US00/00219  
; PRIOR FILING DATE: 2000-01-05  
; NUMBER OF SEQ ID NOS: 423  
; SEQ ID NO 91  
; LENGTH: 696  
; TYPE: PRT  
; ORGANISM: Homo Sapien  
US-09-903-943-91

Query Match 56.8%; Score 42; DB 3; Length 696;  
Best Local Similarity 63.6%; Pred. No. 1.1e+02;  
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 4 GVALSKINLHN 14  
|:||||:|  
Db 493 GVSLSKLSLHN 503

RESULT 36  
US-09-904-462-91  
; Sequence 91, Application US/09904462  
; Publication No. US20030054351A1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/904,462  
; CURRENT FILING DATE: 2001-07-13  
; PRIOR APPLICATION NUMBER: 09/665,350  
; PRIOR FILING DATE: 2000-09-18  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08

; PRIOR APPLICATION NUMBER: PCT/US99/20944  
; PRIOR FILING DATE: 1999-09-13  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/21547  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/23089  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: PCT/US99/28214  
; PRIOR FILING DATE: 1999-11-29  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: 1999-11-30  
; PRIOR APPLICATION NUMBER: PCT/US99/28564  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/28565  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: 1999-12-16  
; PRIOR APPLICATION NUMBER: PCT/US99/30911  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US99/30999  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US00/00219  
; PRIOR FILING DATE: 2000-01-05  
; NUMBER OF SEQ ID NOS: 423  
; SEQ ID NO 91  
; LENGTH: 696  
; TYPE: PRT  
; ORGANISM: Homo Sapien  
US-09-904-462-91

Query Match 56.8%; Score 42; DB 3; Length 696;  
Best Local Similarity 63.6%; Pred. No. 1.1e+02;  
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 4 GVALSKINLHN 14  
|:||||:|  
Db 493 GVSLSKLSLHN 503

RESULT 37  
US-09-907-925-91  
; Sequence 91, Application US/09907925  
; Publication No. US20030054352A1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: 10466-14

; CURRENT APPLICATION NUMBER: US/09/907,925  
; CURRENT FILING DATE: 2001-07-17  
; PRIOR APPLICATION NUMBER: 09/665,350  
; PRIOR FILING DATE: 2000-09-18  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08  
; PRIOR APPLICATION NUMBER: PCT/US99/20944  
; PRIOR FILING DATE: 1999-09-13  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/21547  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/23089  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: PCT/US99/28214  
; PRIOR FILING DATE: 1999-11-29  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: 1999-11-30  
; PRIOR APPLICATION NUMBER: PCT/US99/28564  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/28565  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: 1999-12-16  
; PRIOR APPLICATION NUMBER: PCT/US99/30911  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US99/30999  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US00/00219  
; NUMBER OF SEQ ID NOS: 423  
; SEQ ID NO 91  
; LENGTH: 696  
; TYPE: PRT  
; ORGANISM: Homo Sapien  
US-09-907-925-91

Query Match 56.8%; Score 42; DB 3; Length 696;  
Best Local Similarity 63.6%; Pred. No. 1.1e+02;  
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GVALSKINLHN 14  
|::|||::|||  
Db 493 GVSLSKLSLHN 503

RESULT 38  
US-09-902-692-91  
; Sequence 91, Application US/09902692  
; Publication No. US20030054400A1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Flivaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary B.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.

; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tunas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/902,692  
; CURRENT FILING DATE: 2001-07-10  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08  
; PRIOR APPLICATION NUMBER: PCT/US99/20944  
; PRIOR FILING DATE: 1999-09-13  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/21547  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/23089  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: PCT/US99/28214  
; PRIOR FILING DATE: 1999-11-29  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: 1999-11-30  
; PRIOR APPLICATION NUMBER: PCT/US99/28564  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/28565  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: 1999-12-16  
; PRIOR APPLICATION NUMBER: PCT/US99/30911  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US99/30999  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US00/00219  
; NUMBER OF SEQ ID NOS: 423  
; SEQ ID NO 91  
; LENGTH: 696  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-902-692-91

Query Match 56.8%; Score 42; DB 3; Length 696;  
Best Local Similarity 63.6%; Pred. No. 1.1e+02;  
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GVALSKINLHN 14  
|::|||::|||  
Db 493 GVSLSKLSLHN 503

RESULT 39  
US-09-903-520-91  
; Sequence 91, Application US/09903520  
; Publication No. US20030054401A1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi



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; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/903,520
; CURRENT FILING DATE: 2001-07-11
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
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; PRIOR APPLICATION NUMBER: PCT/US99/21547
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; PRIOR APPLICATION NUMBER: PCT/US99/23089
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; PRIOR APPLICATION NUMBER: PCT/US99/28214
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; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-903-520-91
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Query Match 56.8%; Score 42; DB 3; Length 696;  
Best Local Similarity 63.6%; Pred. No. 1.1e+02;

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Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
Qy 4 GMALSKINLHN 14
Db 493 GVSLSKLSLHN 503

RESULT 40
US-09-905-056-91
; Sequence 91, Application US/09905056
; Publication No. US2003005441A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,056
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
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; PRIOR APPLICATION NUMBER: PCT/US99/28564
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; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
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; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 91
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-905-056-91

Query Match      56.8%; Score 42; DB 3; Length 696;
Best Local Similarity 63.6%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy      4 GWALSKINLHN 14
Db      493 GWSLSKSLHN 503

Search completed: May 13, 2006, 08:29:08
Job time : 166 secs
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GenCore version 5.1.1.8  
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run'on: May 13, 2006, 08:26:32 ; Search time 28 Seconds  
(without alignments)  
23.474 Million cell updates/sec

Title: US-10-769-514-17

Perfect score: 74

Sequence: 1 MGYGHALSKINLHN 14

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 250354 seqs, 46948837 residues

Total number of hits satisfying chosen parameters: 250354

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database : Published Applications AA.New.\*

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2: /SIDSS/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*  
3: /SIDSS/ptodata/2/pubpaa/US07\_NEW\_PUB.pep.\*  
4: /SIDSS/ptodata/2/pubpaa/US08\_NEW\_PUB.pep.\*  
5: /SIDSS/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*  
6: /SIDSS/ptodata/2/pubpaa/US09\_NEW\_PUB.pep.\*  
7: /SIDSS/ptodata/2/pubpaa/US09\_NEW\_PUB.pep.\*  
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12: /SIDSS/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	42	56.8	696	9	US-10-131-826A-354
2	42	56.8	696	9	US-10-511-538-231
3	42	56.8	696	9	US-10-973-1158-354
4	42	56.8	696	9	US-10-137-873A-354
5	42	56.8	696	9	US-10-152-370-354
6	42	56.8	696	11	US-11-290-153-354
7	37	50.0	310	11	US-11-079-463-9199
8	36.5	49.3	350	11	US-11-108-528-54
9	36.5	49.3	351	11	US-11-108-528-52
10	36	48.6	499	11	US-11-225-903-17
11	36	48.6	532	11	US-11-045-004-2431
12	35	47.3	175	11	US-11-172-740-1344
13	35	47.3	226	11	US-11-188-298-1316
14	35	47.3	291	11	US-11-188-298-5176
15	35	47.3	332	11	US-11-096-568A-20956
16	35	47.3	341	11	US-11-188-298-11417
17	35	47.3	407	9	US-10-698-618-1
18	35	47.3	502	11	US-11-096-568A-20955
19	35	47.3	525	11	US-11-096-568A-20954
20	35	47.3	665	11	US-11-188-298-7401
21	35	47.3	723	11	US-11-188-298-16346

Sequence 490, App  
Sequence 526, App  
Sequence 24, Appl  
Sequence 26, Appl  
Sequence 527, App  
Sequence 301, App  
Sequence 96, Appl  
Sequence 23040, A  
Sequence 23039, A  
Sequence 23038, A  
Sequence 8602, Ap  
Sequence 7996, Ap  
Sequence 7672, Ap  
Sequence 8886, Ap  
Sequence 3229, Ap  
Sequence 308, App  
Sequence 2224, Ap  
Sequence 46, Appl  
Sequence 483, App  
Sequence 20107, A  
Sequence 1742, Ap  
Sequence 739, App  
Sequence 2325, Ap  
Sequence 26655, A  
Sequence 15419, A  
Sequence 386, App  
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Sequence 935, App  
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Sequence 26654, A  
Sequence 21579, A  
Sequence 2124, Ap  
Sequence 28, Appl  
Sequence 6, Appl  
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Sequence 22281, A  
Sequence 10826, A  
Sequence 11320, A  
Sequence 2, Appl  
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Sequence 15418, A  
Sequence 3271, Ap  
Sequence 15417, A  
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Sequence 5709, Ap  
Sequence 14037, A  
Sequence 9797, Ap  
Sequence 482, App  
Sequence 10331, A  
Sequence 19611, A  
Sequence 259, App  
Sequence 172, App  
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Sequence 9427, Ap  
Sequence 22532, A  
Sequence 668, App  
Sequence 2302, Ap  
Sequence 4099, Ap  
Sequence 13263, A  
Sequence 14812, A  
Sequence 341, App  
Sequence 14852, A  
Sequence 12374, A

95 33 44.6 918 11 US-11-024-959-492 Sequence 492, App  
96 33 44.6 925 11 US-11-079-463-6249 Sequence 6249, App  
97 33 44.6 1445 11 US-11-124-367A-478 Sequence 478, App  
98 33 44.6 1464 9 US-10-912-971-4 Sequence 4, Appli  
99 33 44.6 1464 11 US-11-076-074-1 Sequence 1, Appli  
100 33 44.6 1464 11 US-11-124-367A-262 Sequence 262, App

## ALIGNMENTS

## RESULT 1

US-10-131-826A-354  
; Sequence 354, Application US/10131826A

; Publication No. US20050245730A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.

; APPLICANT: Beresini, Maureen

; APPLICANT: DeForge, Laura

; APPLICANT: Desnoyers, Luc

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Gurney, Austin L.

; APPLICANT: Sherwood, Steven

; APPLICANT: Smith, Victoria

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tamas, Daniel

; APPLICANT: Watanabe, Colin K.

; APPLICANT: Wood, William

; APPLICANT: Zhang, Zemin

; APPLICANT: Zhang, Zemin

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

; TITLE OF INVENTION: ACIDS ENCODING THE SAME

; FILE REFERENCE: P3330R1C128

; CURRENT APPLICATION NUMBER: US/10/131,826A

; PRIOR FILING DATE: 2002-04-24

; PRIOR APPLICATION NUMBER: 60/049911

; PRIOR FILING DATE: 1997-06-18

; PRIOR APPLICATION NUMBER: 60/056974

; PRIOR FILING DATE: 1997-08-26

; PRIOR APPLICATION NUMBER: 60/059113

; PRIOR FILING DATE: 1997-09-17

; PRIOR APPLICATION NUMBER: 60/059115

; PRIOR FILING DATE: 1997-09-17

; PRIOR APPLICATION NUMBER: 60/059117

; PRIOR FILING DATE: 1997-09-17

; PRIOR APPLICATION NUMBER: 60/059122

; PRIOR FILING DATE: 1997-09-17

; PRIOR APPLICATION NUMBER: 60/059184

; PRIOR FILING DATE: 1997-09-17

; PRIOR APPLICATION NUMBER: 60/059263

; PRIOR FILING DATE: 1997-09-18

; PRIOR APPLICATION NUMBER: 60/059352

; PRIOR FILING DATE: 1997-09-19

; PRIOR APPLICATION NUMBER: 60/059588

; PRIOR FILING DATE: 1997-09-19

; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 550

; SEQ ID NO 354

; LENGTH: 696

; TYPE: PRT

; ORGANISM: Homo Sapien

US-10-131-826A-354

Query Match 56.8%; Score 42; DB 9; Length 696;

Best Local Similarity 63.6%; Pred. No. 10;

Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GMAISKLNHN 14

|:|:|:|:|:|

Db 493 GVSLSKLSLHN 503

## RESULT 2

US-10-511-538-231

; Sequence 231, Application US/10511538

; Publication No. US20060026700A1

; GENERAL INFORMATION:

; APPLICANT: Origene Technologies, Inc

; TITLE OF INVENTION: TISSUE SPECIFIC GENES AND GENE CLUSTERS

; FILE REFERENCE: 16U 200 PCT

; CURRENT APPLICATION NUMBER: US/10/511,538

; CURRENT FILING DATE: 2004-10-18

; PRIOR APPLICATION NUMBER: US 60/372,669

; PRIOR FILING DATE: 2002-04-16

; PRIOR APPLICATION NUMBER: US 60/411,882

; PRIOR FILING DATE: 2002-09-20

; PRIOR APPLICATION NUMBER: US 60/424,336

; PRIOR FILING DATE: 2002-11-07

; PRIOR APPLICATION NUMBER: US 60/374,823

; PRIOR FILING DATE: 2002-04-24

; PRIOR APPLICATION NUMBER: US 60/376,558

; PRIOR FILING DATE: 2002-05-01

; PRIOR APPLICATION NUMBER: US 60/381,366

; PRIOR FILING DATE: 2002-05-20

; PRIOR APPLICATION NUMBER: US 60/403,648

; PRIOR FILING DATE: 2002-08-16

; NUMBER OF SEQ ID NOS: 344

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 231

; LENGTH: 696

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-511-538-231

Query Match 56.8%; Score 42; DB 9; Length 696;

Best Local Similarity 63.6%; Pred. No. 10;

Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GMAISKLNHN 14

|:|:|:|:|:|

Db 493 GVSLSKLSLHN 503

## RESULT 3

US-10-973-115B-354

; Sequence 354, Application US/10973115B

; Publication No. US20060040351A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.

; APPLICANT: Beresini, Maureen

; APPLICANT: DeForge, Laura

; APPLICANT: Desnoyers, Luc

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul

; APPLICANT: Gurney, Austin L.

; APPLICANT: Sherwood, Steven

; APPLICANT: Smith, Victoria

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tamas, Daniel

; APPLICANT: Watanabe, Colin K.

; APPLICANT: Wood, William I.

; APPLICANT: Zhang, Zemin

; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING

; TITLE OF INVENTION: SAME

; FILE REFERENCE: 39870-333ORIC300C1

; CURRENT APPLICATION NUMBER: US/10/973,115B

; CURRENT FILING DATE: 2004-10-22

; PRIOR APPLICATION NUMBER: US 10/145,747

; PRIOR FILING DATE: 2002-05-14

; PRIOR APPLICATION NUMBER: US 10/028,072

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; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: US 09/581,742
; PRIOR FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: PCT/US00/05746
; PRIOR FILING DATE: 2000-03-02
; PRIOR APPLICATION NUMBER: US 60/135,736
; PRIOR FILING DATE: 1999-05-25
; PRIOR APPLICATION NUMBER: US 60/123,090
; PRIOR FILING DATE: 1998-03-05
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 354
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-973-115B-354
```

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Query Match          56.8%; Score 42; DB 9; Length 696;
Best Local Similarity 63.6%; Pred. No. 10;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
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```
QY      4 GMALSKINLHN 14
      |::|::|::|
Db      493 GVSLSKLSLHN 503
```

```
RESULT 4
US-10-137-873A-354
; Sequence 354, Application US/10137873A
; Publication No. US20060084138A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C149
; CURRENT APPLICATION NUMBER: US/10/137,873A
; PRIOR FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: 60/049911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059588
```

```
; PRIOR FILING DATE: 1997-09-19
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 354
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-137-873A-354
```

```
Query Match          56.8%; Score 42; DB 9; Length 696;
Best Local Similarity 63.6%; Pred. No. 10;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      4 GMALSKINLHN 14
      |::|::|::|
Db      493 GVSLSKLSLHN 503
```

```
RESULT 5
US-10-152-370-354
; Sequence 354, Application US/10152370
; Publication No. US20060084139A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C407
; CURRENT APPLICATION NUMBER: US/10/152,370
; PRIOR FILING DATE: 2002-05-21
; Prior Application removed - See file Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 354
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-152-370-354
```

```
Query Match          56.8%; Score 42; DB 9; Length 696;
Best Local Similarity 63.6%; Pred. No. 10;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
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```
QY      4 GMALSKINLHN 14
      |::|::|::|
Db      493 GVSLSKLSLHN 503
```

```
RESULT 6
US-11-290-153-354
; Sequence 354, Application US/11290153
; Publication No. US20060073568A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
```

```
; APPLICANT: Gerritsen,Mary E.
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul J.
; APPLICANT: Gurney,Austin L.
; APPLICANT: Sherwood,Steven
; APPLICANT: Smith,Victoria
; APPLICANT: Stewart,Timothy A.
; APPLICANT: Tumas,Daniel
; APPLICANT: Watanabe,Colin K
; APPLICANT: Wood,William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C321
; CURRENT APPLICATION NUMBER: US/11/290,153
; CURRENT FILING DATE: 2005-11-30
; PRIOR APPLICATION NUMBER: US/10/146,728
; PRIOR FILING DATE: 2002-05-15
; PRIOR APPLICATION NUMBER: 60/049911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; Remaining prior application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 354
; LENGTH: 696
; TYPE: PRT
; ORGANISM: Homo Sapien
US-11-290-153-354

Query Match 56.8%; Score 42; DB 11; Length 696;
Best Local Similarity 63.6%; Pred.No.10;
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 4 GMALSKINLHN 14
Db 493 GVSLSKLSLHN 503

RESULT 7
US-11-079-463-9199
; Sequence 9199, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTERIOIDES FR
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 9199
; LENGTH: 310
; TYPE: PRT
; ORGANISM: B.fragilis
```

```
US-11-079-463-9199

Query Match 50.0%; Score 37; DB 11; Length 310;
Best Local Similarity 54.5%; Pred.No.35;
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 3 YGMALSKINLH 13
Db 65 YGLALEVVVDLH 75

RESULT 8
US-11-108-528-54
; Sequence 54, Application US/11108528
; Publication No. US20050261189A1
; GENERAL INFORMATION:
; APPLICANT: Larsen, Glenn
; APPLICANT: Marvin, Martha
; APPLICANT: Li, Dean Y.
; APPLICANT: Wang, Elizabeth
; APPLICANT: Chen, C. M. Amy
; APPLICANT: Shamah, Steven M.
; TITLE OF INVENTION: METHODS OF PROMOTING CARDIAC CELL
; FILE REFERENCE: HYDR-P01-041
; CURRENT APPLICATION NUMBER: US/11/108,528
; CURRENT FILING DATE: 2005-04-18
; PRIOR APPLICATION NUMBER: US 60/563,137
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 60/598,368
; PRIOR FILING DATE: 2004-08-02
; NUMBER OF SEQ ID NOS: 86
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 350
; TYPE: PRT
; ORGANISM: Mouse
US-11-108-528-54

Query Match 49.3%; Score 36.5; DB 11; Length 350;
Best Local Similarity 31.0%; Pred.No.49;
Matches 9; Conservative 4; Mismatches 1; Indels 15; Gaps 1;

Qy 1 MCYGMALSK-----INLHN 14
Db 135 VGFGEATSKQFVDALETGQDARAAMNLHN 163

RESULT 9
US-11-108-528-52
; Sequence 52, Application US/11108528
; Publication No. US20050261189A1
; GENERAL INFORMATION:
; APPLICANT: Larsen, Glenn
; APPLICANT: Marvin, Martha
; APPLICANT: Li, Dean Y.
; APPLICANT: Wang, Elizabeth
; APPLICANT: Chen, C. M. Amy
; APPLICANT: Shamah, Steven M.
; TITLE OF INVENTION: METHODS OF PROMOTING CARDIAC CELL
; FILE REFERENCE: HYDR-P01-041
; CURRENT APPLICATION NUMBER: US/11/108,528
; CURRENT FILING DATE: 2005-04-18
; PRIOR APPLICATION NUMBER: US 60/563,137
; PRIOR FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: US 60/598,368
; PRIOR FILING DATE: 2004-08-02
; NUMBER OF SEQ ID NOS: 86
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 351
; TYPE: PRT
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```
; ORGANISM: Homo sapiens
US-11-108-528-52

Query Match      49.3%; Score 36.5; DB 11; Length 351;
Best Local Similarity 31.0%; Pred. No. 49;
Matches 9; Conservative 4; Mismatches 1; Indels 15; Gaps 1;

QY 1 MGYGNALSK-----INTLN 14
   :||:|:|:|
Db 136 VGFGEAISQKQFVDALETGODARAANLN 164

RESULT 10
US-11-225-903-17
; Sequence 17, Application US/11225903
; Publication No. US20060059582A1
; GENERAL INFORMATION:
; APPLICANT: Jankowski, Boris
; APPLICANT: Feldmann, Kenneth A.
; APPLICANT: Bobzin, Steven Craig
; TITLE OF INVENTION: Modulation of Amino Acid and Sugar Content in Plants
; FILE REFERENCE: 11696-137001/WO1
; CURRENT APPLICATION NUMBER: US/11/225,903
; CURRENT FILING DATE: 2005-09-13
; PRIOR APPLICATION NUMBER: 60/610,356
; PRIOR FILING DATE: 2004-9-14
; NUMBER OF SEQ ID NOS: 28
; SEQ ID NO 17
; LENGTH: 499
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(499)
; OTHER INFORMATION: Public GI no. 11994438
US-11-225-903-17

Query Match      48.6%; Score 36; DB 11; Length 499;
Best Local Similarity 60.0%; Pred. No. 92;
Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 3 YGMALSKINL 12
   |||::|:|
Db 468 YGMATADINN 477

RESULT 11
US-11-045-004-2431
; Sequence 2431, Application US/11045004
; Publication No. US20060078901A1
; GENERAL INFORMATION:
; APPLICANT: BUCHRIESER, CARMEN
; APPLICANT: FRANGEUL, LIONEL
; APPLICANT: COUVE, ELISABETH
; APPLICANT: RUSNIOK, CHRISTOPHE
; APPLICANT: FSIHL, HAFIDA
; APPLICANT: DEHOUX, PIERRE
; APPLICANT: DUSSURGET, OLIVIER
; APPLICANT: CHETOUANT, FARID
; APPLICANT: NEDJARI, HAFED
; APPLICANT: GLASER, PHILIPPE
; APPLICANT: KUNST, FRANCK
; APPLICANT: COSSART, PASCALE
; APPLICANT: DANIELS, JUSTIN
; APPLICANT: GOEBEL, WERNER
; APPLICANT: KREPT, JURGEN
; APPLICANT: KUHN, MICHAEL
; APPLICANT: NG, EVA
; APPLICANT: VAZQUEZ-BOLAND, ANTONIO
; APPLICANT: DOMINGUEZ-BERNAL, GUSTAVO
; APPLICANT: GARRIDO-GARCIA, PATRICIA
; APPLICANT: TIERREZ-MARTINEZ, ALBERTO
; APPLICANT: AMEND, ALEXANDRA
```

```
; APPLICANT: CHAKRABORTY, TRINAD
; APPLICANT: DOMANN, EUGEN
; APPLICANT: HAIN, THORSTEN
; APPLICANT: BERCHE, PATRICK
; APPLICANT: CHARBIT, ALAIN
; APPLICANT: DURANT, LIONEL
; APPLICANT: PEREZ-DIAZ, JOSE-CLAUDIO
; APPLICANT: BAQUERO, FERNANDO
; APPLICANT: GARCIA DEL PORTILLO, FRANCISCO
; APPLICANT: GOMEZ-LOPEZ, NURIA
; APPLICANT: MADUENIO, ENCARNA
; APPLICANT: PABLOS, BETRIZ DE
; APPLICANT: WEHLAND, JURGEN
; APPLICANT: KARST, UWE
; APPLICANT: ENTIAN, KARL-DIETER
; APPLICANT: HAUP, JORG
; APPLICANT: ROSE, MATTHIAS
; APPLICANT: VOSS, HAMTUT
; TITLE OF INVENTION: LISTERIA MONOCYTOGENES GENOME, POLYPEPTIDES AND USES
; FILE REFERENCE: 05394.0018-02
; CURRENT APPLICATION NUMBER: US/11/045,004
; CURRENT FILING DATE: 2005-01-28
; PRIOR APPLICATION NUMBER: 10/637,657
; PRIOR FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: 10/257,023
; PRIOR FILING DATE: 2002-10-08
; PRIOR APPLICATION NUMBER: PCT/FR01/01118
; PRIOR FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: FR 00/04,629
; PRIOR FILING DATE: 2000-04-11
; NUMBER OF SEQ ID NOS: 2854
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2431
; LENGTH: 532
; TYPE: PRT
; ORGANISM: Listeria monocytogenes
US-11-045-004-2431

Query Match      48.6%; Score 36; DB 11; Length 532;
Best Local Similarity 54.5%; Pred. No. 99;
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 3 YGMALSKINLH 13
   |||::|:|
Db 71 YGOALERLNLN 81

RESULT 12
US-11-172-740-1344
; Sequence 1344, Application US/11172740
; Publication No. US20060057724A1
; GENERAL INFORMATION:
; APPLICANT: MASCIA, Peter
; APPLICANT: ALEXANDROV, Nikolai
; APPLICANT: BROVER, Vyacheslav
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCES AND POLYPEPTIDES ENCODED THEREBY USEFUL FOR
; TITLE OF INVENTION: PLANT CHARACTERISTICS AND PHENOTYPES
; FILE REFERENCE: 2750-1602PUS2
; CURRENT APPLICATION NUMBER: US/11/172,740
; CURRENT FILING DATE: 2005-06-30
; PRIOR APPLICATION NUMBER: 60/583,621
; PRIOR FILING DATE: 2004-06-30
; PRIOR APPLICATION NUMBER: 60/584,829
; PRIOR FILING DATE: 2004-06-30
; PRIOR APPLICATION NUMBER: 60/584,800
; PRIOR FILING DATE: 2004-06-30
; NUMBER OF SEQ ID NOS: 2523
; SEQ ID NO 1344
; LENGTH: 175
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; NAME/KEY: misc_feature
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; LOCATION: (1)..(175)
; OTHER INFORMATION: Public GI no. 2346976
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Utility: Useful for increasing chlorophyll and photosynthetic cap
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Utility: Useful for making ornamental plants with modified leaves
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Utility: Useful for making plants with altered leaf shape eg curl
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: Utility: Useful for modifying fruit shape, composition and seed y
; US-11-172-740-1344
Query Match 47.3%; Score 35; DB 11; Length 175;
Best Local Similarity 70.0%; Pred. No. 43;
Matches 7; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
Qy 5 MALSKLNLHN 14
Db 25 MLLSKLNDHN 34
RESULT 13
US-11-188-298-1316
; Sequence 1316, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 1316
; LENGTH: 226
; TYPE: PRT
; ORGANISM: Davidia involucreta
; US-11-188-298-1316
Query Match 47.3%; Score 35; DB 11; Length 226;
Best Local Similarity 60.0%; Pred. No. 57;
Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
Qy 1 MGYGMALSKI 10
Db 19 VGYGLELSRI 28
RESULT 14
US-11-188-298-5176
; Sequence 5176, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; PRIOR FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 5176
; LENGTH: 291
; TYPE: PRT
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```
; ORGANISM: Glycine max
US-11-188-298-5176
Query Match 47.3%; Score 35; DB 11; Length 291;
Best Local Similarity 60.0%; Pred. No. 76;
Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
Qy 1 MGYGMALSKI 10
Db 192 IGYGLELSRI 201
RESULT 15
US-11-096-568A-20956
; Sequence 20956, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 20956
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; NAME/KEY: misc_feature
; LOCATION: (1)..(332)
; OTHER INFORMATION: Ceres Seq. ID no. 12391420
; US-11-096-568A-20956
Query Match 47.3%; Score 35; DB 11; Length 332;
Best Local Similarity 30.8%; Pred. No. 89;
Matches 4; Conservative 6; Mismatches 3; Indels 0; Gaps 0;
Qy 2 GYGMAISKINLHN 14
Db 159 GHGISIGSLGVHN 171
RESULT 16
US-11-188-298-11417
; Sequence 11417, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 11417
; LENGTH: 341
; TYPE: PRT
; ORGANISM: Glycine max
US-11-188-298-11417
Query Match 47.3%; Score 35; DB 11; Length 341;
Best Local Similarity 60.0%; Pred. No. 91;
Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
Qy 1 MGYGMALSKI 10
Db 192 IGYGLELSRI 201
RESULT 17
US-10-698-618-1
```



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; Sequence 1, Application US/10698618
; Publication No. US20050271604A1
; GENERAL INFORMATION:
; APPLICANT: GESTRELIUS, STINA
; APPLICANT: HAMMARSTROM, LARS
; APPLICANT: LINGSTADDAAS, PETER
; APPLICANT: ANDERSSON, CHRISTER
; APPLICANT: SLABY, IVAN
; APPLICANT: HAMMARGREN, TOMAS
; TITLE OF INVENTION: MATRIX PROTEIN COMPOSITIONS FOR WOUND HEALING
; FILE REFERENCE: 47927-48292-CPA
; CURRENT APPLICATION NUMBER: US/10/698,618
; CURRENT FILING DATE: 2003-10-30
; PRIOR APPLICATION NUMBER: US/10/156,300
; PRIOR FILING DATE: 2002-05-28
; PRIOR APPLICATION NUMBER: US/09/258,613
; PRIOR FILING DATE: 1999-02-26
; PRIOR APPLICATION NUMBER: DK PA 1998 01328
; PRIOR FILING DATE: 1998-10-16
; PRIOR APPLICATION NUMBER: 60/081,551
; PRIOR FILING DATE: 1998-04-13
; PRIOR APPLICATION NUMBER: DK 0270/98
; PRIOR FILING DATE: 1998-02-27
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 407
; TYPE: PRT
; ORGANISM: Rattus sp.
US-10-698-618-1
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```
Query Match 47.3%; Score 35; DB 9; Length 407;
Best Local Similarity 46.2%; Pred. No. 1.1e+02;
Matches 6; Conservative 4; Mismatches 3; Indels 0; Gaps 0;
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```
Qy 1 MCGYMAKSKINLH 13
:|:|:|:|:|:|:|:|:|
Db 70 LGFGKALNSLWLH 82
```

```
RESULT 18
US-11-096-568A-20955
; Sequence 20955, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE OF INVENTION: Therby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 20955
; LENGTH: 502
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(502)
; OTHER INFORMATION: Ceres Seq. ID no. 12391419
US-11-096-568A-20955
```

```
Query Match 47.3%; Score 35; DB 11; Length 502;
Best Local Similarity 30.8%; Pred. No. 1.4e+02;
Matches 4; Conservative 6; Mismatches 3; Indels 0; Gaps 0;
```

```
Qy 2 GYGMALSKINLH 14
|:|:|:|:|:|:|:|:|:|
Db 329 GHGISGSLGVHN 341
```

```
RESULT 19
US-11-096-568A-20954
```

```
; Sequence 20954, Application US/11096568A
; Publication No. US20060048240A1
; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nikolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE OF INVENTION: Therby
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,568A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 20954
; LENGTH: 525
; TYPE: PRT
; ORGANISM: Zea mays subsp. mays
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(525)
; OTHER INFORMATION: Ceres Seq. ID no. 12391418
US-11-096-568A-20954
```

```
Query Match 47.3%; Score 35; DB 11; Length 525;
Best Local Similarity 30.8%; Pred. No. 1.5e+02;
Matches 4; Conservative 6; Mismatches 3; Indels 0; Gaps 0;
```

```
Qy 2 GYGMALSKINLH 14
|:|:|:|:|:|:|:|:|:|
Db 352 GHGISGSLGVHN 364
```

```
RESULT 20
```

```
US-11-188-298-7401
; Sequence 7401, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 7401
; LENGTH: 665
; TYPE: PRT
; ORGANISM: Glycine max
US-11-188-298-7401
```

```
Query Match 47.3%; Score 35; DB 11; Length 665;
Best Local Similarity 60.0%; Pred. No. 2e+02;
Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 MGYGMALSKI 10
:|:|:|:|:|:|:|:|:|
Db 459 IGYGLELSRI 468
```

```
RESULT 21
US-11-188-298-16346
; Sequence 16346, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 16346
; LENGTH: 723
; TYPE: PRT
```

```
; ORGANISM: Glycine max
US-11-188-298-16346

Query Match      47.3%; Score 35; DB 11; Length 723;
Best Local Similarity 60.0%; Pred. No. 2.2e+02;
Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy      1 MGYGMALSKI 10
Db      517 IGVGLELSRI 526

RESULT 22
US-11-188-298-490
; Sequence 490, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 490
; LENGTH: 724
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-11-188-298-490

Query Match      47.3%; Score 35; DB 11; Length 724;
Best Local Similarity 60.0%; Pred. No. 2.2e+02;
Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy      1 MGYGMALSKI 10
Db      515 IGVGLELSRI 524

RESULT 23
US-10-995-561-526
; Sequence 526, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 526
; LENGTH: 1404
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-995-561-526

Query Match      47.3%; Score 35; DB 9; Length 1404;
Best Local Similarity 35.7%; Pred. No. 4.6e+02;
Matches 5; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

Qy      1 MGYGMALSKINLHN 14
Db      49 IGWGSQSKVHIHH 62

RESULT 24
US-11-090-439-24
; Sequence 24, Application US/11090439
; Publication No. US20050266442A1
; GENERAL INFORMATION:
; APPLICANT: Squillace, Rachel P.
; TITLE OF INVENTION: Immortalized Human Tuberos Sclerosis Null
; FILE REFERENCE: 24318-502
; CURRENT APPLICATION NUMBER: US/11/090,439
; CURRENT FILING DATE: 2005-03-25
; PRIOR APPLICATION NUMBER: 60/556,344
; PRIOR FILING DATE: 2004-03-25
; NUMBER OF SEQ ID NOS: 62
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 24
; LENGTH: 1581
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-090-439-24

Query Match      47.3%; Score 35; DB 11; Length 1581;
Best Local Similarity 35.7%; Pred. No. 5.3e+02;
Matches 5; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

Qy      1 MGYGMALSKINLHN 14
Db      49 IGWGSQSKVHIHH 62

RESULT 25
US-11-090-439-26
; Sequence 26, Application US/11090439
; Publication No. US20050266442A1
; GENERAL INFORMATION:
; APPLICANT: Squillace, Rachel P.
; TITLE OF INVENTION: Immortalized Human Tuberos Sclerosis Null
; FILE REFERENCE: 24318-502
; CURRENT APPLICATION NUMBER: US/11/090,439
; CURRENT FILING DATE: 2005-03-25
; PRIOR APPLICATION NUMBER: 60/556,344
; PRIOR FILING DATE: 2004-03-25
; NUMBER OF SEQ ID NOS: 62
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 26
; LENGTH: 1581
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-090-439-26

Query Match      47.3%; Score 35; DB 11; Length 1581;
Best Local Similarity 35.7%; Pred. No. 5.3e+02;
Matches 5; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

Qy      1 MGYGMALSKINLHN 14
Db      49 IGWGSQSKVHIHH 62

RESULT 26
US-10-995-561-527
; Sequence 527, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 527
```

; LENGTH: 1588  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-995-561-527

Query Match 47.3%; Score 35; DB 9; Length 1588;  
Best Local Similarity 35.7%; Pred. No. 5.3e+02;  
Matches 5; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14  
Db 49 IGWQSQSKVHIHH 62

## RESULT 27

US-10-485-517-301  
; Sequence 301, Application US/10485517  
; Publication No. US20050256299A1  
; GENERAL INFORMATION:  
; APPLICANT: University of Sheffield  
; APPLICANT: Biosynexus Incorporated  
; APPLICANT: Foster, Simon  
; APPLICANT: Mond, James  
; TITLE OF INVENTION: Antigenic Polypeptides  
; FILE REFERENCE: P100629NO  
; CURRENT APPLICATION NUMBER: US/10/485,517  
; CURRENT FILING DATE: 2004-02-02  
; PRIOR APPLICATION NUMBER: GB 0118825.9  
; PRIOR FILING DATE: 2001-08-02  
; PRIOR APPLICATION NUMBER: GB 0200349.9  
; PRIOR FILING DATE: 2002-01-09  
; NUMBER OF SEQ ID NOS: 424  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 301  
; LENGTH: 174  
; TYPE: PRT  
; ORGANISM: Staphylococcus aureus  
US-10-485-517-301

Query Match 45.9%; Score 34; DB 9; Length 174;  
Best Local Similarity 36.4%; Pred. No. 65;  
Matches 4; Conservative 6; Mismatches 1; Indels 0; Gaps 0;

QY 3 YGMALSKINLH 13  
Db 81 YGLAIASLSVH 91

## RESULT 28

US-11-129-143-96  
; Sequence 96, Application US/11129143  
; Publication No. US20050266518A1  
; GENERAL INFORMATION:  
; APPLICANT: BERRY, Alan  
; APPLICANT: BRETZEL, Werner  
; APPLICANT: HUMBELIN, Markus  
; APPLICANT: LOPEZ-ULIBARRI, Rual  
; APPLICANT: MAYER, Anne F.  
; APPLICANT: YELISEEV, Alexei A.  
; TITLE OF INVENTION: IMPROVED ISOPRENOID PRODUCTION  
; FILE REFERENCE: C38435/121966  
; CURRENT APPLICATION NUMBER: US/11/129,143  
; CURRENT FILING DATE: 2005-05-13  
; NUMBER OF SEQ ID NOS: 197  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 96  
; LENGTH: 292  
; TYPE: PRT  
; ORGANISM: Streptococcus pyrogenes  
US-11-129-143-96

Query Match 45.9%; Score 34; DB 11; Length 292;  
Best Local Similarity 66.7%; Pred. No. 1.2e+02;

Matches 8; Conservative 1; Mismatches 3; Indels 0; Gaps 0;  
QY 1 MGYGMALSKINL 12  
Db 5 IGYGKAKSKIIIL 16

## RESULT 29

US-11-096-568A-29040  
; Sequence 29040, Application US/11096568A  
; Publication No. US20060048240A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexandrov, Nikolai et al.  
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
; FILE REFERENCE: 2750-1592PUS2  
; CURRENT APPLICATION NUMBER: US/11/096,568A  
; CURRENT FILING DATE: 2005-04-01  
; NUMBER OF SEQ ID NOS: 34471  
; SEQ ID NO 29040  
; LENGTH: 344  
; TYPE: PRT  
; ORGANISM: Arabidopsis thaliana  
; NAME/KEY: misc feature  
; LOCATION: (1)..(344)  
; OTHER INFORMATION: Ceres Seq. ID no. 3599624  
US-11-096-568A-29040

Query Match 45.9%; Score 34; DB 11; Length 344;  
Best Local Similarity 38.5%; Pred. No. 1.4e+02;  
Matches 5; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 2 GYGMALSKINLHN 14  
Db 101 GYGIGSLTVNVHS 113

## RESULT 30

US-11-096-568A-29039  
; Sequence 29039, Application US/11096568A  
; Publication No. US20060048240A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexandrov, Nikolai et al.  
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides  
; FILE REFERENCE: 2750-1592PUS2  
; CURRENT APPLICATION NUMBER: US/11/096,568A  
; CURRENT FILING DATE: 2005-04-01  
; NUMBER OF SEQ ID NOS: 34471  
; SEQ ID NO 29039  
; LENGTH: 365  
; TYPE: PRT  
; ORGANISM: Arabidopsis thaliana  
; NAME/KEY: misc feature  
; LOCATION: (1)..(365)  
; OTHER INFORMATION: Ceres Seq. ID no. 3599623  
US-11-096-568A-29039

Query Match 45.9%; Score 34; DB 11; Length 365;  
Best Local Similarity 38.5%; Pred. No. 1.5e+02;  
Matches 5; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 2 GYGMALSKINLHN 14  
Db 122 GYGIGSLTVNVHS 134

## RESULT 31

US-11-096-568A-29038  
; Sequence 29038, Application US/11096568A  
; Publication No. US20060048240A1

```

; GENERAL INFORMATION:
; APPLICANT: Alexandrov, Nickolai et al.
; TITLE OF INVENTION: Sequence-Determined DNA Fragments and Corresponding Polypeptides
; FILE REFERENCE: 2750-1592PUS2
; CURRENT APPLICATION NUMBER: US/11/096,569A
; CURRENT FILING DATE: 2005-04-01
; NUMBER OF SEQ ID NOS: 34471
; SEQ ID NO 29038
; LENGTH: 440
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; NAME/KEY: misc feature
; LOCATION: (1)-(440)
; OTHER INFORMATION: Ceres Seq. ID no. 3599622
US-11-096-569A-29038

Query Match      45.9%; Score 34; DB 11; Length 440;
Best Local Similarity 38.5%; Pred. No. 1.9e+02;
Matches 5; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

Qy      2 GYGMALSKINLHN 14
Db      197 GYGIGSLTVNVHS 209
      |||: |||:
      |||: |||:

RESULT 32
US-11-087-099-8602
; Sequence 8602, Application US/11087099
; Publication No. US20060041961A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: Genes and Uses for Plant Improvement
; FILE REFERENCE: 38-21(53450)B EP
; CURRENT APPLICATION NUMBER: US/11/087,099
; CURRENT FILING DATE: 2005-03-22
; NUMBER OF SEQ ID NOS: 12464
; SEQ ID NO 8602
; LENGTH: 445
; TYPE: PRT
; ORGANISM: Butyrivibrio fibrisolvens
US-11-087-099-8602

Query Match      45.9%; Score 34; DB 11; Length 445;
Best Local Similarity 60.0%; Pred. No. 1.9e+02;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy      2 GYGMALSKIN 11
Db      305 GYGLGYSKID 314
      |||: |||:
      |||: |||:

RESULT 33
US-11-188-298-7996
; Sequence 7996, Application US/11188298
; Publication No. US20060075522A1
; GENERAL INFORMATION:
; APPLICANT: Abad, Mark S. et al.
; TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53452)B
; CURRENT APPLICATION NUMBER: US/11/188,298
; CURRENT FILING DATE: 2005-07-22
; PRIOR APPLICATION NUMBER: 60/592,978
; PRIOR FILING DATE: 2004-07-31
; NUMBER OF SEQ ID NOS: 22569
; SEQ ID NO 7996
; LENGTH: 445
; TYPE: PRT
; ORGANISM: Butyrivibrio fibrisolvens
US-11-188-298-7996

Query Match      45.9%; Score 34; DB 11; Length 445;

```

```

Best Local Similarity 60.0%; Pred. No. 1.9e+02;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy      2 GYGMALSKIN 11
Db      305 GYGLGYSKID 314
      |||: |||:
      |||: |||:

RESULT 34
US-11-079-463-7672
; Sequence 7672, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRA
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 7672
; LENGTH: 467
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-7672

Query Match      45.9%; Score 34; DB 11; Length 467;
Best Local Similarity 66.7%; Pred. No. 2e+02;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      1 MGYGNMALS 9
Db      335 IGYGIGLSK 343
      |||: |||:
      |||: |||:

RESULT 35
US-11-079-463-8886
; Sequence 8886, Application US/11079463
; Publication No. US20060073161A1
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO BACTEROIDES FRA
; FILE REFERENCE: PATH00-03DIV2
; CURRENT APPLICATION NUMBER: US/11/079,463
; CURRENT FILING DATE: 2005-03-14
; PRIOR APPLICATION NUMBER: US 60/128,705
; PRIOR FILING DATE: 1999-04-09
; PRIOR APPLICATION NUMBER: US 09/540,209
; PRIOR FILING DATE: 2000-04-04
; NUMBER OF SEQ ID NOS: 10444
; SEQ ID NO 8886
; LENGTH: 521
; TYPE: PRT
; ORGANISM: B.fragilis
US-11-079-463-8886

Query Match      45.9%; Score 34; DB 11; Length 521;
Best Local Similarity 70.0%; Pred. No. 2.3e+02;
Matches 7; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy      2 GYGMALSKIN 11
Db      260 GYKVLRSKIN 269
      |||: |||:
      |||: |||:

RESULT 36
US-11-188-298-3229
; Sequence 3229, Application US/11188298

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Publication No. US20060075522A1  
GENERAL INFORMATION:  
APPLICANT: Abad, Mark S. et al.  
TITLE OF INVENTION: GENES AND USES FOR PLANT IMPROVEMENT  
FILE REFERENCE: 38-21(53452)B  
CURRENT APPLICATION NUMBER: US/11/188,298  
CURRENT FILING DATE: 2005-07-22  
PRIOR APPLICATION NUMBER: 60/592,978  
PRIOR FILING DATE: 2004-07-31  
NUMBER OF SEQ ID NOS: 22569  
SEQ ID NO 3229  
LENGTH: 544  
TYPE: PRT  
ORGANISM: Schizosaccharomyces pombe  
US-11-188-298-3229

Query Match 45.9%; Score 34; DB 11; Length 544;  
Best Local Similarity 54.5%; Pred. No. 2.4e+02;  
Matches 6; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 4 GMALSKINLHN 14  
|||: : |||

Db 148 GMILTALVOLHN 158

RESULT 37  
US-10-915-002-308  
Sequence 308, Application US/10915002  
Publication No. US20060078950A1  
GENERAL INFORMATION:  
APPLICANT: Progulske-Fox, Ann  
APPLICANT: Hillman, Jeffrey D.  
TITLE OF INVENTION: IDENTIFICATION OF PORPHYROMONAS GINGIVALIS VIRULENCE POLYNUCLEOTIDE  
TITLE OF INVENTION: USE IN DIAGNOSIS ANTIGENS FOR USE IN THE DIAGNOSIS, TREATMENT, A  
TITLE OF INVENTION: PERIODONTAL DISEASES  
FILE REFERENCE: 02-042  
CURRENT APPLICATION NUMBER: US/10/915,002  
CURRENT FILING DATE: 2004-08-10  
NUMBER OF SEQ ID NOS: 354  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 308  
LENGTH: 662  
TYPE: PRT  
ORGANISM: Porphyromonas gingivalis  
US-10-915-002-308

Query Match 45.9%; Score 34; DB 9; Length 662;  
Best Local Similarity 75.0%; Pred. No. 3e+02;  
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 GYGMAALSK 9  
|||||: :  
327 GYGMAALQA 334

Db 327 GYGMAALQA 334

RESULT 38  
US-11-072-512-2224  
Sequence 2224, Application US/11072512  
Publication No. US20060029945A1  
GENERAL INFORMATION:  
APPLICANT: ISOGAI, TAKAO  
APPLICANT: SUGIYAMA, TOMOYASU  
APPLICANT: OTSUKI, TETSUJI  
APPLICANT: WAKAMATSU, AI  
APPLICANT: SATO, HIROYUKI  
APPLICANT: ISHII, SHIZUKO  
APPLICANT: YAMAMOTO, JUN-ICHI  
APPLICANT: ISONO, YUUKO  
APPLICANT: HIO, YURI  
APPLICANT: OTSUKA, KAORU  
APPLICANT: NAGAI, KEIICHI  
APPLICANT: IRIE, RYOTARO

APPLICANT: TAMECHIKA, ICHIRO  
APPLICANT: SEKI, NAOHICO  
APPLICANT: YOSHIKAWA, TSUTOMU  
APPLICANT: OTSUKA, MOTOTUKI  
APPLICANT: NAGAHARI, KENJI  
APPLICANT: MASUHO, YASUHIKO  
TITLE OF INVENTION: Novel full length cDNA  
FILE REFERENCE: 084335-0191  
CURRENT APPLICATION NUMBER: US/11/072,512  
CURRENT FILING DATE: 2005-03-07  
PRIOR APPLICATION NUMBER: US 60/350,978  
PRIOR FILING DATE: 2002-01-25  
PRIOR APPLICATION NUMBER: JP 2001-379298  
PRIOR FILING DATE: 2001-11-05  
NUMBER OF SEQ ID NOS: 4096  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 2224  
LENGTH: 724  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-11-072-512-2224

Query Match 45.9%; Score 34; DB 11; Length 724;  
Best Local Similarity 54.5%; Pred. No. 3.3e+02;  
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 4 GMALSKINLHN 14  
|||: : |||

Db 493 GTALTRLNLRN 503

RESULT 39  
US-11-147-047-46  
Sequence 46, Application US/11147047  
Publication No. US20050260668A1  
GENERAL INFORMATION:  
APPLICANT: Agarwal, Parikaj  
APPLICANT: Murdock, Paul R.  
APPLICANT: Rizvi, Safia K.  
APPLICANT: Smith, Randall F.  
APPLICANT: Xiang, Zhaoying  
TITLE OF INVENTION: NOVEL COMPOUNDS  
FILE REFERENCE: GP50016  
CURRENT APPLICATION NUMBER: US/11/147,047  
CURRENT FILING DATE: 2005-06-07  
PRIOR APPLICATION NUMBER: US/10/221,097  
PRIOR FILING DATE: 2002-09-06  
PRIOR APPLICATION NUMBER: PCT/US01/07143  
PRIOR FILING DATE: 2001-03-05  
PRIOR APPLICATION NUMBER: 60/187,107  
PRIOR FILING DATE: 2000-03-06  
PRIOR APPLICATION NUMBER: 60/236,874  
PRIOR FILING DATE: 2000-10-03  
PRIOR APPLICATION NUMBER: 60/188,916  
PRIOR FILING DATE: 2000-03-13  
PRIOR APPLICATION NUMBER: 60/237,846  
PRIOR FILING DATE: 2000-10-03  
NUMBER OF SEQ ID NOS: 52  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 46  
LENGTH: 845  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-11-147-047-46

Query Match 45.9%; Score 34; DB 11; Length 845;  
Best Local Similarity 54.5%; Pred. No. 4e+02;  
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 4 GMALSKINLHN 14  
|||: : |||

Db 493 GTALTRLNLRN 503

```

RESULT 40
US-11-264-096-483
; Sequence 483, Application US/11264096
; Publication NO. US20060084794A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PF546D1
; CURRENT APPLICATION NUMBER: US/11/264,096
; CURRENT FILING DATE: 2005-11-02
; PRIOR APPLICATION NUMBER: 09/833,245
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: 60/229,358
; PRIOR FILING DATE: 2000-04-12
; PRIOR APPLICATION NUMBER: 60/256,931
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/199,384
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 2267
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 483
; LENGTH: 845
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (477)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-11-264-096-483

Query Match 45.9%; Score 34; DB 11; Length 845;
Best Local Similarity 54.5%; Pred. No. 4e+02;
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 4 GMALSKINLHN 14
Db 493 GTALTRELNLRN 503

Search completed: May 13, 2006, 08:29:40
Job time : 29 secs

```

GenCore version 5.1.1.8  
Copyright (C) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: May 13, 2006, 08:10:22 ; Search time 39 Seconds  
(without alignments)  
34.539 Million cell updates/sec

Title: US-10-769-514-17

Perfect score: 74

Sequence: 1 MGYGNALSKINLHN 14

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database : PIR 80:\*

1: Pirl:\*

2: Pirl2:\*

3: Pirl3:\*

4: Pirl4:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	46	62.2	188	2 AB0503	conserved hypotet
2	46	62.2	188	2 B85481	yaaH protein [salmi
3	46	62.2	188	2 B90630	yaaH protein [salmi
4	46	62.2	188	2 E56688	protein yaaH - Esc
5	46	62.2	203	2 AH0057	probable membrane
6	44	59.5	197	2 F82282	conserved hypotet
7	43	58.1	119	2 E72714	probable ribosomal
8	41	55.4	906	2 B96901	uncharacterized co
9	40	54.1	429	2 JC4986	site-specific DNA-
10	40	54.1	432	2 A82533	glutamyl-tRNA redu
11	40	54.1	607	2 B84153	two-component sens
12	40	54.1	1122	2 T28130	hypothetical prote
13	39.5	53.4	2338	2 I73957	kinase-related pro
14	39	52.7	89	2 A43664	usg protein - Caul
15	39	52.7	204	2 E69126	yaaH protein homol
16	39	52.7	1032	2 S74487	hypothetical prote
17	38	51.4	282	2 H97226	protein containing
18	38	51.4	316	2 S77783	hypothetical prote
19	38	51.4	444	2 T05614	hypothetical prote
20	38	51.4	583	2 T32266	hypothetical prote
21	38	51.4	627	2 T00484	hypothetical prote
22	37.5	50.7	603	2 JC7900	beta-N-acetylgluco
23	37	50.0	217	1 WJHU2C	homeotic protein H
24	37	50.0	217	1 WJMSX2	homeotic protein H
25	37	50.0	250	2 A69951	N-acetylmuramoyl-L
26	37	50.0	348	2 T40989	probable d-amino a
27	37	50.0	362	2 S27530	sporulation protei
28	37	50.0	362	2 A84963	probable proteinas
29	37	50.0	378	2 H69505	conserved hypotet

30	37	50.0	394	2 AI2206	hypothetical prote
31	37	50.0	551	2 S66740	probable transcrip
32	37	50.0	691	1 VCNVH3	capsid-associated
33	37	50.0	692	2 T41845	VP80 orf104 - Bomb
34	37	50.0	693	1 JH0265	DNA recombinase [E
35	37	50.0	693	2 G91194	DNA helicase RecG
36	37	50.0	704	2 H86041	hypothetical prote
37	37	50.0	809	2 AI2747	conserved hypotet
38	37	50.0	873	2 H97528	hypothetical prote
39	36	48.6	79	2 F72592	hypothetical prote
40	36	48.6	168	2 H83643	polypeptide deform
41	36	48.6	168	2 E87389	RNA polymerase sig
42	36	48.6	170	2 H82746	polypeptide deform
43	36	48.6	200	2 F83780	hypothetical prote
44	36	48.6	302	2 D85911	hypothetical prote
45	36	48.6	305	2 S64612	hypothetical prote
46	36	48.6	357	2 C70805	hypothetical prote
47	36	48.6	379	2 H90183	hypothetical prote
48	36	48.6	382	2 AB0945	alcohol dehydrogen
49	36	48.6	382	2 AI0040	probable methanol
50	36	48.6	409	2 S26033	NADH2 dehydrogenas
51	36	48.6	409	2 S26021	NADH2 dehydrogenas
52	36	48.6	422	2 C91067	hypothetical prote
53	36	48.6	532	2 AB1369	conserved hypotet
54	36	48.6	532	2 AC1738	conserved hypotet
55	36	48.6	573	2 B70047	two-component sens
56	36	48.6	699	2 T18984	hypothetical prote
57	36	48.6	1068	2 T48756	mitochondrial nico
58	35.5	48.0	257	1 S22363	gufa protein homol
59	35.5	48.0	257	2 AF0890	probable membrane
60	35.5	48.0	257	2 H91119	gufa protein homol
61	35.5	48.0	257	2 G85964	gufa protein homol
62	35.5	48.0	464	2 S3194	royal jelly protei
63	35.5	48.0	3036	2 T18995	hypothetical prote
64	35	47.3	132	2 T32373	hypothetical prote
65	35	47.3	207	2 S20683	phosphinomethylal
66	35	47.3	311	2 AE3169	hypothetical prote
67	35	47.3	322	2 T27333	hypothetical prote
68	35	47.3	325	1 B40358	NADH2 dehydrogenas
69	35	47.3	325	1 DNWTU1	NADH2 dehydrogenas
70	35	47.3	325	1 S49576	NADH2 dehydrogenas
71	35	47.3	329	2 F64356	translation initia
72	35	47.3	331	1 DNOBU1	NADH2 dehydrogenas
73	35	47.3	336	2 E72359	rod shape-determin
74	35	47.3	356	2 G97072	uncharacterized con
75	35	47.3	366	2 AE0105	sugar transport At
76	35	47.3	394	2 F90598	membrane nuclease
77	35	47.3	407	2 S58062	amelin 1 - rat
78	35	47.3	413	2 AE0089	probable flagellar
79	35	47.3	498	2 T23432	hypothetical prote
80	35	47.3	499	2 E98969	histidine kinase (
81	35	47.3	514	2 S17958	cytochrome oxidase
82	35	47.3	514	2 F90770	probable third cyc
83	35	47.3	514	2 B85633	probable L-lactate
84	35	47.3	567	2 C75340	hypothetical prote
85	35	47.3	569	2 H53092	hypothetical prote
86	35	47.3	580	2 C82082	penicillin-binding
87	35	47.3	598	2 T29878	hypothetical prote
88	35	47.3	631	2 G70188	transcription init
89	35	47.3	634	2 F82079	probable 2',3'-cyc
90	35	47.3	675	2 F84937	DNA ligase (NAD) (
91	35	47.3	690	1 OYRTA1	guanylate cyclase
92	35	47.3	691	1 OYB077	guanylate cyclase
93	35	47.3	717	2 S23098	guanylate cyclase
94	35	47.3	724	2 H86427	unknown protein [i
95	35	47.3	725	2 S57127	probable membrane
96	35	47.3	732	2 S18325	guanylate cyclase,
97	35	47.3	804	2 AG1038	conserved hypotet
98	35	47.3	845	1 B71255	ribonucleoside-dip
99	35	47.3	871	2 T49216	hypothetical prote
100	35	47.3	893	2 S61000	probable membrane





C:Accession: AH0057  
 R:Parkhill, J.; Wren, B.W.; Thomson, N.R.; Titball, R.W.; Holden, M.T.G.; Prentice, M.B.; deno-Tarraga, A.M.; Chillingworth, T.; Cronin, A.; Davies, R.M.; Davis, P.; Dougan, G.; Hill, M.; Rutherford, K.; Simmonds, K.; Skelton, J.; Stevens, K.; Whitehead, S.; Barrrell, Nature 413, 523-527, 2001  
 A:Title: Genome sequence of *Yersinia pestis*, the causative agent of plague.  
 A:Reference number: AB0001; MUID:21470413; PMID:11586360  
 A:Accession: AH0057  
 A:Status: preliminary  
 A:Molecule type: DNA  
 A:Residues: 1-203 <KUR>  
 A:Cross-references: UNIPROT:Q8ZIM8; UNIPARC:UPI00000DC73D; GB:AL590842; PIDN:CAC89323.1;  
 C:Genetics:  
 C:Superfamily: Saccharomyces cerevisiae probable membrane protein FUN34  
 A:Gene: YPO0467  
 Query Match 62.2%; Score 46; DB 2; Length 203;  
 Best Local Similarity 57.1%; Pred. No. 0.55;  
 Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;  
 QY 1 MGYGMALSKINLHN 14  
 ||||| :|||  
 Db 15 MGFGMTVLLNLHN 28  
 ||||| :|||  
 RESULT 6  
 F82282  
 conserved hypothetical protein VC0770 [imported] - *Vibrio cholerae* (strain N16961 serogroup O1)  
 C:Species: *Vibrio cholerae*  
 C:Date: 18-Aug-2000 #sequence\_revision 20-Aug-2000 #text\_change 09-Jul-2004  
 C:Accession: F82282  
 R:Heidelberg, J.F.; Eisen, J.A.; Nelson, W.C.; Clayton, R.A.; Gwinn, M.L.; Dodson, R.J.; Chardon, D.; Ermolaeva, M.D.; Vamathevan, J.; Bass, S.; Qin, H.; Dragol, I.; Sellers, P.L.; R.R.; Mekalanos, J.J.; Venter, J.C.; Fraser, C.M.  
 Nature 406, 477-483, 2000  
 A:Title: DNA Sequence of both chromosomes of the cholera pathogen *Vibrio cholerae*.  
 A:Reference number: A82035; MUID:20406833; PMID:10952301  
 A:Accession: F82282  
 A:Status: preliminary  
 A:Molecule type: DNA  
 A:Residues: 1-197 <HEI>  
 A:Cross-references: UNIPROT:Q9KTW0; UNIPARC:UPI00000C2DBA; GB:AE004162; GB:AE003852; NID:10952301  
 A:Experimental source: serogroup O1; strain N16961; biotype El Tor  
 C:Genetics:  
 A:Map position: 1  
 A:Gene: VC0770  
 C:Superfamily: Saccharomyces cerevisiae probable membrane protein FUN34  
 Query Match 59.5%; Score 44; DB 2; Length 197;  
 Best Local Similarity 50.0%; Pred. No. 1.3;  
 Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;  
 QY 1 MGYGMALSKINLHN 14  
 ||||| :|||  
 Db 14 MGFGMTVLLNLHN 27  
 ||||| :|||  
 RESULT 7  
 E72714  
 probable ribosomal protein S24 APE1132 - *Aeropyrum pernix* (strain K1)  
 C:Species: *Aeropyrum pernix*  
 C:Date: 20-Aug-1999 #sequence\_revision 20-Aug-1999 #text\_change 24-Sep-1999  
 C:Accession: E72714  
 R:Kawarabayashi, Y.; Hino, Y.; Horikawa, H.; Yamazaki, S.; Haikawa, Y.; Jin-no, K.; Takahawa, H.; Takamiya, M.; Masuda, S.; Funahashi, T.; Tanaka, T.; Kudoh, Y.; Yamazaki, J.; KDNA Res. 6, 83-101, 1999  
 A:Title: Complete genome sequence of an aerobic hyper-thermophilic Crenarchaeon, *Aeropyrum pernix* strain K1.  
 A:Reference number: A72450; MUID:99310339; PMID:10382966  
 A:Accession: E72714  
 A:Status: preliminary  
 A:Molecule type: DNA  
 A:Residues: 1-119 <KAW>  
 A:Cross-references: UNIPARC:UPI000005DE12; DBJ:AP000060; NID:G5104188; PIDN:BAAB0117.1;

A:Experimental source: strain K1  
 C:Genetics:  
 A:Gene: APE1132

Query Match 58.1%; Score 43; DB 2; Length 119;  
 Best Local Similarity 58.3%; Pred. No. 1.1;  
 Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 2 GYGMALSKINLH 13  
 ||||| :|||  
 Db 77 GYGAGLSKVRVH 88  
 ||||| :|||

## RESULT 8

B96901  
 uncharacterized conserved protein, probable metal-binding CAC0010 [imported] - *Clostridium acetobutylicum*  
 C:Species: *Clostridium acetobutylicum*  
 C:Date: 14-Sep-2001 #sequence\_revision 14-Sep-2001 #text\_change 09-Jul-2004  
 C:Accession: B96901  
 R:Nolling, J.; Breton, G.; Omelchenko, M.V.; Markarova, K.S.; Zeng, Q.; Gibson, R.; Lee, J.; Daly, M.J.; Bennett, G.N.; Koonin, E.V.; Smith, D.R.  
 J. Bacteriol. 183, 4823-4838, 2001  
 A:Title: Genome Sequence and Comparative Analysis of the Solvent-Producing Bacterium *Clostridium acetobutylicum* ATCC824  
 A:Reference number: A96900; MUID:21359325; PMID:21359325  
 A:Accession: B96901  
 A:Status: preliminary  
 A:Molecule type: DNA  
 A:Residues: 1-906 <KUR>  
 A:Cross-references: UNIPROT:Q97N28; UNIPARC:UPI00000390DC; GB:AE001437; PIDN:AAK77997.1;  
 A:Experimental source: *Clostridium acetobutylicum* ATCC824  
 C:Genetics:  
 A:Gene: CAC0010

Query Match 55.4%; Score 41; DB 2; Length 906;  
 Best Local Similarity 60.0%; Pred. No. 25;  
 Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 2 GYGMALSKIN 11  
 ||||| :|||  
 Db 429 GYGLVNSKVN 438  
 ||||| :|||

## RESULT 9

JC4986  
 site-specific DNA-methyltransferase (cytosine-specific) (EC 2.1.1.73) ApaLI - *Acetobacter pasteurianus*  
 C:Species: *Acetobacter pasteurianus*  
 C:Date: 15-Dec-1996 #sequence\_revision 21-Jan-1997 #text\_change 31-Dec-2004  
 C:Accession: JC4986  
 R:Suzuki, T.; Sugimoto, E.; Tahara, Y.; Yamada, Y.  
 Biosci. Biotechnol. Biochem. 60, 1401-1405, 1996  
 A:Title: Cloning and nucleotide sequence of ApaLI restriction-modification system from *Acetobacter pasteurianus*.  
 A:Reference number: JC4986; MUID:97141241; PMID:8987585  
 A:Accession: JC4986  
 A:Molecule type: DNA  
 A:Residues: 1-429 <SUZ>  
 A:Cross-references: UNIPROT:P70750; UNIPARC:UPI00000B5146; DBJ:D78276; NID:G1644233; P:1000000000  
 A:Experimental source: strain IF013753  
 C:Comment: This enzyme belongs to cytosine-5 methylase family.  
 C:Genetics:  
 A:Gene: M.ApaLI  
 C:Superfamily: modification methylase (cytosine-specific), M.EcoRII type  
 C:Keywords: methyltransferase; S-adenosylmethionine

Query Match 54.1%; Score 40; DB 2; Length 429;  
 Best Local Similarity 58.3%; Pred. No. 17;  
 Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 MGYGMALSKINL 12  
 ||||| :|||  
 Db 142 MGYSVRLQKVN 153  
 ||||| :|||

## RESULT 10

A82533  
 Glutamyl-tRNA reductase XP2648 [imported] - Xylella fastidiosa (strain 9asc)  
 C/Species: Xylella fastidiosa  
 C/Date: 18-Aug-2000 #sequence\_revision 20-Aug-2000 #text\_change 09-Jul-2004  
 C/Accession: A82533  
 R:anonymous, The Xylella fastidiosa Consortium of the Organization for Nucleotide Sequencing  
 Nature 406, 151-157, 2000  
 A/Title: The genome sequence of the plant pathogen Xylella fastidiosa.  
 A/Reference number: A82515; PMID:20365717; PMID:10910347  
 A/Note: for a complete list of authors see reference number A59328 below  
 A/Accession: A82533  
 A/Status: preliminary  
 A/Molecule type: DNA  
 A/Residues: 1-432 <SIM>  
 A/Cross-references: UNIPROT:Q9PA72; UNIPARC:UPI000012C440; GB:AE004071; GB:AE003849; NID:10910347  
 A/Experimental source: strain 9asc  
 R:Simpson, A.J.G.; Reinhard, F.C.; Arruda, P.; Abreu, F.A.; Acencio, M.; Alvarenga, R.; Briones, M.R.S.; Bueno, M.R.P.; Camargo, A.A.; Camargo, L.B.A.; Carraro, D.M.; Carrer, F.; Neto, E.; Docena, C.; El-Dorri, H.; Facincani, A.P.; Ferreira, A.J.S.  
 submitted to GenBank, June 2000  
 A/Authors: Ferreira, V.C.A.; Ferro, J.A.; Fraga, J.S.; Franca, S.C.; Franco, M.C.; Frohm J.D.; Junqueira, M.L.; Kemper, E.L.; Kitajima, J.P.; Krieger, J.B.; Kuramae, E.E.; Laigret, M.A.; Madeira, A.M.B.N.; Madeira, H.M.F.; Marino, C.L.; Marques, M.V.; Martins, E.A.; Authors: Martins, E.M.F.; Matukuma, A.Y.; Menck, C.F.M.; Miracca, E.C.; Miyaki, C.Y.; F.G.; Nunes, L.R.; Oliveira, M.A.; de Oliveira, M.C.; de Oliveira, R.C.; Palmieri, D.A.; Rodrigues, V.; Rosa, A.J. de M.; de Rosa Jr., V.E.; de Sa, R.G.; Santelli, R.V.; Sawasak A/Authors: da Silva, A.C.R.; da Silva, F.R.; da Silva, A.M.; Silva Jr., W.A.; da Silveira M.; Tshuko, M.H.; Vallada, H.; Van Sluys, M.A.; Verjovski-Almeida, S.; Vettore, A.L.; Z A/Reference number: A59328  
 A/Contents: annotation  
 A/Genes: XP2648  
 C/Genetics:  
 C/Superfamily: glutamyl-tRNA reductase  
 Query Match 54.1%; Score 40; DB 2; Length 432;  
 Best Local Similarity 50.0%; Pred. No. 17;  
 Matches 6; Conservative 4; Mismatches 2; Indels 0; Gaps 0;  
 Qy 2 GYGMAISKINLH 13  
 Db 220 GYALPITELNLH 231  
 RESULT 11  
 B84153  
 two-component sensor histidine kinase BH4026 [imported] - Bacillus halodurans (strain C-  
 C/Species: Bacillus halodurans  
 C/Date: 01-Dec-2000 #sequence\_revision 01-Dec-2000 #text\_change 09-Jul-2004  
 C/Accession: B84153  
 R:Takami, H.; Nakasone, K.; Takaki, Y.; Maeno, G.; Sasaki, R.; Masui, N.; Fujii, F.; Hira Nucleic Acids Res. 28, 4317-4331, 2000  
 A/Title: Complete genome sequence of the alkaliphilic bacterium Bacillus halodurans and A/Reference number: A83650; PMID:20512582; PMID:11058132  
 A/Status: preliminary  
 A/Molecule type: DNA  
 A/Residues: 1-607 <STO>  
 A/Cross-references: UNIPROT:Q9K5R2; UNIPARC:UPI00000C439F; GB:AP001520; GB:BA000004; NID:10910347  
 A/Experimental source: strain C-125  
 C/Genetics:  
 A/Genes: BH4026  
 Query Match 54.1%; Score 40; DB 2; Length 607;  
 Best Local Similarity 50.0%; Pred. No. 25;  
 Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;  
 Qy 1 MGYGMAISKINLH 14  
 Db 221 MGYGDFSRKVNHS 234  
 RESULT 12  
 T28130  
 usg protein - Caulobacter crescentus  
 hypothetical protein ZK970.6 - Caenorhabditis elegans  
 C/Species: Caenorhabditis elegans  
 C/Date: 15-Oct-1999 #sequence\_revision 15-Oct-1999 #text\_change 09-Jul-2004  
 C/Accession: T28130  
 R:Birks, M.  
 submitted to the EMBL Data Library, April 1995  
 A/Reference number: Z20473  
 A/Accession: T28130  
 A/Status: preliminary; translated from GB/EMBL/DBDJ  
 A/Molecule type: DNA  
 A/Residues: 1-1122 <WIL>  
 A/Cross-references: UNIPROT:Q23682; UNIPARC:UPI000007CF2C; EMBL:Z49073; PIDN:CAA88890.1., A/Experimental source: clone ZK970  
 C/Genetics:  
 A/Genes: CESP-ZK970.6  
 A/Map position: 2  
 A/Introns: 28/3; 72/2; 153/2; 281/1; 312/3; 354/3; 401/1; 442/3; 660/3; 761/1; 819/2; 95/ C/Superfamily: membrane-bound guanylate cyclase; guanylate cyclase catalytic domain homo.  
 Query Match 54.1%; Score 40; DB 2; Length 1122;  
 Best Local Similarity 77.8%; Pred. No. 48;  
 Matches 7; Conservative 2; Mismatches 0; Indels 0; Gaps 0;  
 Qy 3 YGMALSKIN 11  
 Db 370 YGMAVSKLN 378  
 RESULT 13  
 I73957  
 kinase-related protein c-ros-1 precursor - rat  
 N/Contains: protein-tyrosine kinase (EC 2.7.1.112) ros-1  
 C/Species: Rattus norvegicus (Norway rat)  
 C/Date: 02-Aug-1996 #sequence\_revision 02-Aug-1996 #text\_change 09-Jul-2004  
 C/Accession: I73957; I56752; I73956  
 R:Matsumine, H.; Shibuya, M.  
 J. Virol. 64, 2117-2125, 1990  
 A/Title: Tissue-specific expression of rat c-ros-1 gene and partial structural similarity A/Reference number: I56752; PMID:90219211; PMID:2139140  
 A/Accession: I73957  
 A/Status: preliminary; translated from GB/EMBL/DBDJ  
 A/Molecule type: mRNA  
 A/Residues: 1-2338 <RES>  
 A/Cross-references: UNIPROT:Q63132; UNIPARC:UPI00000E793D; GB:M35106; NID:G203599; PIDN: A/Accession: I56752  
 A/Status: preliminary; translated from GB/EMBL/DBDJ  
 A/Molecule type: mRNA  
 A/Residues: 1-430,452-2338 <RE2>  
 A/Cross-references: UNIPARC:UPI00000E591B; GB:M35104; NID:G203595; PIDN:AAA40966.1; PID: A/Accession: I73956  
 A/Status: preliminary; translated from GB/EMBL/DBDJ  
 A/Molecule type: mRNA  
 A/Residues: 1-430,452-1872, 'AC', 1875 <RE3>  
 A/Cross-references: UNIPARC:UPI00000E78EA; GB:M35105; NID:G203597; PIDN:AAA40967.1; PID: C/Superfamily: kinase-related protein ros; LDL receptor YWTD-containing repeat homology, C/Keywords: alternative splicing; ATP; autophosphorylation; glycoprotein; kinase-related; ific protein kinase  
 F/753-793/Domain: LDL receptor YWTD-containing repeat homology <YW3>  
 F/1935-2214/Domain: protein kinase homology <KIN>  
 F/1943-1951/Region: protein kinase ATP-binding motif  
 Query Match 53.4%; Score 39.5; DB 2; Length 2338;  
 Best Local Similarity 58.8%; Pred. No. 1.3e+02;  
 Matches 10; Conservative 1; Mismatches 3; Indels 3; Gaps 1;  
 Qy 1 MGY---GMALSKINLH 14  
 Db 1190 MGYFAQGDALFLNLH 1206  
 RESULT 14  
 A43664  
 usg protein - Caulobacter crescentus

C;Species: Caulobacter crescentus  
C;Date: 03-Mar-1993 #sequence\_revision 03-Mar-1993 #text\_change 09-Jul-2004  
C;Accession: A43664; H87688  
R;Ross, C.M.; Winkler, M.E.  
J. Bacteriol. 170, 757-768, 1988  
A;title: Structure of the Caulobacter crescentus trpPEA operon.  
A;Reference number: A43664; MUID:88115177; PMID:2828322  
A;Accession: A43664  
A;Status: preliminary  
A;Molecule type: DNA  
A;Residues: 1-89 <R>  
R;Cross-references: UNIPROT:P12288; UNIPARC:UPI0000137E4F; GB:M19129; NID:g144284; PIDN:  
A;Niernman, W.C.; Feldblyum, T.V.; Paulsen, I.T.; Neilson, K.E.; Eisen, J.; Heidelberg, J.  
B.; Laub, M.T.; DeBoy, R.T.; Dodson, R.J.; Durkin, A.S.; Gwinn, M.L.; Haft, D.H.; Kolon  
n. J.; Ermolaeva, M.; White, O.; Salzberg, S.L.; Shapiro, L.; Venter, J.C.; Fraser, C.M. Colon  
Proc. Natl. Acad. Sci. U.S.A. 98, 4136-4141, 2001  
A;title: Complete Genome Sequence of Caulobacter crescentus.  
A;Reference number: A87249; MUID:21173698; PMID:11259647  
A;Accession: H87688  
A;Status: preliminary  
A;Molecule type: DNA  
A;Residues: 1-89 <STO>  
A;Cross-references: UNIPARC:UPI0000137E4F; GB:AE005673; NID:g13425282; PIDN:AAK25508.1;  
C;Genetics:  
A;Gene: CC3546

```

Query Match          52.7%; Score 39; DB 2; Length 89;
Best Local Similarity 46.2%; Pred. No. 4.6;
Matches 6; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY      1  MGYGMALSKINLH 13
        ||||: :||: |
Db       11 MGYGLTTAEIHYH 23

RESULT 15
E69126
yaaH protein homolog MTH215 - Methanobacterium thermoautotrophicum (strain Delta H)
C:Species: Methanobacterium thermoautotrophicum
C:Date: 05-Dec-1997 #sequence_revision 05-Dec-1997 #text_change 09-Jul-2004
C:Accession: E69126
R:Smith, D.R.; Doucette-Stamm, L.A.; Deloughery, C.; Lee, H.; Dubois, J.; Aldredge, T.;
; Qiu, D.; Spadafora, R.; Vicaire, R.; Wang, Y.; Wierzbowski J.; Gibson, R.; Jiwani, N.
Ji, S.; Church, G.M.; Daniels, C.J.; Mao, J.; Rice, P.; Noelling, J.; Reeve, J.N.
K. Bacteriol. 179, 7135-7155, 1997
A:Title: Complete genome sequence of Methanobacterium thermoautotrophicum Delta H: func
A:Reference number: A69000; MUID:98037514; PMID:9371463
A:Accession: E69126
A:Status: preliminary; nucleic acid sequence not shown; translation not shown

```

A:Molecule type: DNA  
A:Residues: 1-204 <MTH>  
A:Cross-references: UNIPROT:Q2G317; UNIPARC:UPI000013948D; GB:AE000866; NID  
A:Experimental source: strain Delta H  
C:Genetics:  
A:Gene: MTH215  
A:Start codon: TTG  
A:Superfamily: Saccharomyces cerevisiae probable membrane protein FUN34

```

Query Match      52.7%;   Score 39; DB 2;   Length 204;
Best Local Similarity 42.9%;   Pred. No. 11;
Matches 6; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14
   :|||:||||
DB 28 LGFGITITILLNHN 41

```

RESULT 16  
S74487  
hypothetical protein all1060 - *Synechocystis* sp. (strain PCC 6803)  
C:Species: *Synechocystis* sp.  
A:Variety: PCC 6803  
C:Date: 25-Apr-1997 #sequence revision 25-Apr-1997 #text change 09-Jul-2004

C:Accession: S74487  
R:Kaneko, T.; Sato, S.; Kotani, H.; Tanaka, A.; Asamizu, E.; Nakamura, Y.; Miyajima, N.; O, K.; Okumura, S.; Shimpo, S.; Takeuchi, C.; Wada, T.; Watanabe, A.; Yamada, M.; Yasuda  
DNA Res. 3, 109-136, 1996  
A:Title: Sequence analysis of the genome of the unicellular cyanobacterium *Synechocystis*  
B.  
A:Reference number: S74322; MUID:97061201; PMID:8905231  
A:Accession: S74487  
A:Status: nucleic acid sequence not shown; translation not shown  
A:Molecule type: DNA  
A:Residues: 1-1032 <KAN>  
A:Cross-references: UNIPROT:P72637; UNIPARC:UPI0000139F8B; EMBL:D90899; GB:AB001339; NII  
A:Note: the nucleotide sequence was submitted to the EMBL Data Library, June 1996  
C:Genetics:  
A:Start codon: GTG

Query Match	52.7%	Score 39;	DB 2;	Length 1032;
Best Local Similarity	63.6%	Pred. No. 68;		
Meat-Hoof	7.	Mismatches	1.	Gaps 0;
Conservative			3.	Indels 0;

Qy 2 GYGMALSKINL 12  
||| ||| :||  
Db 569 GYGETLSPVNL 579

## RESULT 17

H97226  
protein containing uncharacterized domain from NimC family [imported] - Clostridium ace.  
C:Species: Clostridium acetobutylicum  
C:Date: 14-Sep-2001 #sequence\_revision 14-Sep-2001 #text\_change 09-Jul-2004  
C:Accession: H97226  
E:Nolling, J.; Bretton, G.; Omelchenko, M.V.; Markarova, K.S.; Zeng, Q.; Gibson, R.; Lee, J.; Daly, M.J.; Bennett, G.N.; Koonin, E.V.; Smith, D.R.  
J. Bacteriol. 183, 4823-4838, 2001  
a:Title: Genome Sequence and Comparative Analysis of the Solvent-Producing Bacterium C.  
a:Reference: number: 396900. PMID:21159125

A:Accession: H97226  
A:Status: preliminary  
A:Title: *Cl. botulinum* type A  
A: Molecule type: DNA  
A: Residues: 1-282 <KUR>  
A: Cross-references: UNIPROT: Q97FSL; UNIPARC: UPI000000CASC5  
A: Experimental source: Clostridium acetobutylicum ATCC82  
C: Geneticks:  
C: Gene: CAC2656

Query Match	Score 38;	DB 2;	Length 282;
Best Local Similarity	51.4%		
Best Global Similarity	50.0%		
Number of Matches	4.	1.	0.
Number of Indels	2.	1.	0.

Qy 3 YGMALSKINLHN 14  
| : | : | : |  
231 YATAMKKI.NNN 24

DECEMBER 1987

S77783  
hypothetical protein MC100 - Mycoplasma capricolum (fragment)  
C:Species: Mycoplasma capricolum  
C:Date: 09-Oct-1997 #sequence\_revision 24-Oct-1997 #text\_change 09-Jul-2004  
C:Accession: S77783  
R:Bork, P.; Ouzounis, C.; Casari, G.; Schneider, R.; Sander, C.; Dolan, M.; Gilbert, W.  
Mol. Microbiol. 16, 955-967, 1995  
A:Title: Exploring the Mycoplasma capricolum genome: a minimal cell reveals its physiology.  
A:Reference number: S77739; MUID:96059641; PMID:7476192

A/ACCESSION: S11183  
A/STATUS: nucleic acid sequence not shown; translation not shown  
A/MOLECULE TYPE: DNA

A;Residues: 1-316 <BOR>

A:Cross-references: UNIPROT:Q48999; UNIPARC:UPI00000B6594; EMBL:Z33074; NID:G9516148; P:  
A:Experimental source: ATCC 27343  
A:Note: the nucleotide sequence was submitted to the EMBL Data Library, July 1994  
C:Genetics:  
A:Genetic code: SGC3

```

Query Match      51.4%; Score 38; DB 2; Length 316;
Best Local Similarity 42.9%; Pred. No. 29;
Matches 6; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

Qy      1 MGYGMALSKINLHN 14
Db      284 IGYGVWLNRLYYHN 297

RESULT 19
T05614
hypothetical protein F9D16.290 - Arabidopsis thaliana
C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 23-Apr-1999 #sequence_revision 23-Apr-1999 #text_change 09-Jul-2004
A;Accession: T05614
R;Lin, X.; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fujii, C.Y.;
M.; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.; VanAken, S.E.; Umayam, L.; Tallon, L.;
Euss, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, J.
submitted to the Protein Sequence Database, February 1999
A;Reference number: Z15419
A;Accession: T05614
A;Molecule type: DNA
A;Residues: 1-444 <BEV>
A;Cross-references: UNIPROT:Q9SUP5; UNIPARC:UPI00000489D3; EMBL:AL035394
A;Experimental source: cultivar Columbia; BAC clone F9D16
C;Genetics:
A;Map position: 4
A;Introns: 110/3; 151/1; 209/2; 233/1
A;Note: F9D16.290
C;Superfamily: polygalacturonase

Query Match      51.4%; Score 38; DB 2; Length 444;
Best Local Similarity 70.0%; Pred. No. 41;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      4 GMALSKINLH 13
Db      393 GICLSKINLH 402

RESULT 20
T32266
hypothetical protein F23F1.6 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 09-Jul-2004
R;Wu, X.
submitted to the EMBL Data Library, September 1997
A;Description: The sequence of C. elegans cosmid F23F1.
A;Reference number: Z21142
A;Accession: T32266
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-583 <WUX>
A;Cross-references: UNIPROT:O17069; UNIPARC:UPI000007E396; EMBL:AF024493; PIDN:AAB70324.
A;Experimental source: strain Bristol N2; clone F23F1
C;Genetics:
A;Gene: CESP.F23F1.6
A;Map position: 2
A;Introns: 88/2; 155/3; 199/3; 428/1; 509/3
C;Superfamily: ecotropic retrovirus receptor protein

Query Match      51.4%; Score 38; DB 2; Length 583;
Best Local Similarity 63.6%; Pred. No. 56;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy      4 GMALSKINLHN 14
Db      561 GQKLSKIDVHN 571

RESULT 21
T00484
hypothetical protein At2g35030 [imported] - Arabidopsis thaliana
N;Alternate names: hypothetical protein F19I3.26
C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 12-Feb-1999 #sequence_revision 12-Feb-1999 #text_change 09-Jul-2004
R;Accession: T00484; G84763
R;Rounsley, S.D.; Lin, X.; Ketchum, K.A.; Crosby, M.L.; Brandon, R.C.; Sykes, S.M.; Kaul
submitted to the EMBL Data Library, April 1998
A;Description: Arabidopsis thaliana chromosome II BAC F19I3 genomic sequence.
A;Reference number: Z14160
A;Accession: T00484
A;Status: translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-627 <ROU>
A;Cross-references: UNIPROT:O64766; UNIPARC:UPI00000A16AD; EMBL:AC004238; NID:G3033373;
R;Lin, X.; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fujii, C.Y.;
M.; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.; VanAken, S.E.; Umayam, L.; Tallon, L.;
Euss, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, J.
Nature 402, 761-768, 1999
A;Title: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana.
A;Reference number: A84420; MUID:20083487; PMID:10617197
A;Accession: G84763
A;Status: Preliminary
A;Molecule type: DNA
A;Residues: 1-627 <STO>
A;Cross-references: UNIPARC:UPI00000A16AD; GB:AE002093; NID:G3033399; PIDN:AAC12843.1; G
C;Genetics:
A;Gene: F19I3.26; At2g35030
A;Map position: 2

Query Match      51.4%; Score 38; DB 2; Length 627;
Best Local Similarity 58.3%; Pred. No. 61;
Matches 7; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy      3 YGMWALSINLHN 14
Db      505 YGAILSACNVHN 516

RESULT 22
JC7900
beta-N-acetylglucosaminidase (EC 3.2.1.30) NagA - Emericella nidulans, Aspergillus nidul
C;Species: Emericella nidulans, Aspergillus nidulans
C;Date: 03-Feb-2003 #sequence_revision 03-Feb-2003 #text_change 09-Jul-2004
R;Accession: JC7900
R;Kim, S.; Matsuo, I.; Ajisaka, K.; Nakajima, H.; Kitamoto, K.
BioSci. Biotechnol. Biochem. 66, 2168-2175, 2002
A;Title: Cloning and characterization of the nagA gene that encodes beta-N-acetylglucosa
A;Reference number: JC7900; MUID:22333931; PMID:12450128
A;Accession: JC7900
A;Molecule type: mRNA
A;Residues: 1-603 <KIM>
A;Cross-references: UNIPROT:O9HG13; UNIPARC:UPI0000069AFD; DBJ:AB039846
C;Comment: This enzyme is generally dimeric and has broad substrate specificity. It has
gradation of chitin cell wall by endochitinases.
C;Genetics:
A;Gene: nagA
C;Keywords: glycosidase; hydrolase

Query Match      50.7%; Score 37.5; DB 2; Length 603;
Best Local Similarity 81.8%; Pred. No. 72;
Matches 9; Conservative 1; Mismatches 0; Indels 1; Gaps 1;

Qy      4 GWALSKINLH 13
Db      210 GWALSKINLH 220

RESULT 23
WJHU2C
homeotic protein Hox B7 - human
N;Alternate names: homeotic protein cl; homeotic protein Hox 2C; TATRA binding protein
C;Species: Homo sapiens (man)
C;Date: 30-Sep-1991 #sequence_revision 30-Sep-1991 #text_change 09-Jul-2004

```

C;Accession: A28030; S15535; A44934  
R;Simone, A.; Mavilio, F.; Acampora, D.; Giampaolo, A.; Faiella, A.; Zappavigna, V.; D' Proc. Natl. Acad. Sci. U.S.A. 84, 4914-4918, 1987  
A;Title: Two human homeobox genes, ci and c8: structure analysis and expression in embryo  
A;Reference number: A28030; MUID:87260899; PMID:2885844  
A;Accession: A28030  
A;Molecule type: mRNA  
A;Residues: 1-217 <SIM>  
A;Cross-references: UNIPROT:P09629; UNIPARC:UPI00001745A9; GB:M16937  
A;Note: the authors translated the codon GGC for residue 53 as Ala  
R;Boncinelli, E.; Acampora, D.; Pannese, M.; d'Esposito, M.; Somma, R.; Gaudino, G.; Stc Genome 31, 745-756, 1989  
A;Title: Organization of human class I homeobox genes.  
A;Reference number: S15036; MUID:90215256; PMID:2576652  
A;Accession: S15535  
A;Molecule type: DNA  
A;Residues: 137-202 <BON>  
A;Cross-references: UNIPARC:UPI00001745AA  
R;Baier, L.J.; Hannibal, M.C.; Hanley, E.W.; Nabel, G.J.  
Blood 78, 1047-1055, 1991  
A;Title: Lymphoid expression and TATAA binding of a human protein containing an Antennap  
A;Reference number: A44934; MUID:91329816; PMID:1678287  
A;Accession: A44934  
A;Molecule type: mRNA  
A;Residues: 98-217 <BAI>  
A;Cross-references: UNIPARC:UPI00001745AB; GB:S49765; NID:G233572; PIDN:AA819469.1; PID: A;Note: this sequence is inconsistent with the nucleotide translation  
A;Note: sequence extracted from NCBI backbone (NCBI:49765, NCBIP:49769)  
C;Genetics:  
A;Gene: GDB:H0XB7  
A;Cross-references: GDB:120660; OMIM:142962  
A;Map position: 17q21.3-17q21.3  
A;Intons: 134/1  
C;Superfamily: homeotic protein Hox A7; homeobox homology  
C;Keywords: DNA binding; homeobox; nucleus; transcription regulation  
F;138-194/Domain: homeobox homology <Hox>

Query Match 50.0%; Score 37; DB 1; Length 217;  
Best Local Similarity 50.0%; Pred. No. 29;  
Matches 6; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 2 GYGMAISKINLH 13  
|||:| |  
DB 77 GYGLEPSSFNMH 88

RESULT 24  
WJMSX2  
homeotic protein Hox B7 - mouse  
N;Alternate names: homeotic protein Hox 2.3  
C;Species: Mus musculus (house mouse)  
C;Date: 30-Jun-1991 #sequence revision 30-Jun-1991 #text change 09-Jul-2004  
A;Accession: A26846; B26846; B27176; A29585; S00988; I48411; S01887  
R;Meijlink, F.; de laaf, R.; Verrilizer, P.; Destree, O.; Kroezen, V.; Hilkens, J.; Desch Nucleic Acids Res. 15, 6773-6786, 1987  
A;Title: A mouse homeobox containing gene on chromosome 11: sequence and tissue-specific  
A;Reference number: A26846; MUID:88015526; PMID:2889183  
A;Accession: A26846  
A;Molecule type: DNA  
A;Residues: 1-217 <MEI>  
A;Cross-references: UNIPROT:P09024; UNIPARC:UPI0000029981; GB:Y00436; NID:G51387; PIDN:Q  
R;Hart, C.P.; Fainsod, A.; Ruddie, F.H.  
Genomics 1, 162-195, 1987  
A;Title: Sequence analysis of the murine Hox-2.2, -2.3, and -2.4 homeo boxes: evolutiona  
A;Reference number: A27176; MUID:88085193; PMID:2891608  
A;Accession: B27176  
A;Molecule type: DNA  
A;Residues: 134-210, R' 212-217 <HAR>  
A;Cross-references: UNIPARC:UPI00001745AC; EMBL:M18400

R;Lonai, P.; Arman, E.; Czosnek, H.; Ruddie, F.H.; Blatt, C.  
DNA 6, 409-418, 1987  
A;Title: New murine homeoboxes: structure, chromosomal assignment, and differential exp  
A;Reference number: A29585; MUID:88054465; PMID:2890503  
A;Accession: A29585  
A;Molecule type: DNA  
A;Residues: 'LCV' 134-185, 'G' 187-205, 'H' 207-210, 'A' 212-217 <LOH>  
A;Cross-references: UNIPARC:UPI00001745AD; EMBL:M18167  
A;Note: the authors translated the codon CAG for residue 186 as Gly  
R;Kongsuwan, K.; Webb, E.; Housiaux, P.; Adams, J.M.  
EMBO J. 7, 2131-2138, 1988  
A;Title: Expression of multiple homeobox genes within diverse mammalian haemopoietic lin  
A;Reference number: S00987; MUID:88329001; PMID:2901346  
A;Accession: S00988  
A;Molecule type: mRNA  
A;Residues: 137-196 <KON>  
A;Cross-references: UNIPARC:UPI000016CDEF; EMBL:X14570; NID:G51388; PIDN:CAA32708.1; PI  
R;Verrilizer, P.; de Graaff, W.; Deschamps, J.; Meijlink, F.  
Nucleic Acids Res. 16, 2729, 1988  
A;Title: Nucleotide sequence of the Hox2.3 gene region.  
A;Reference number: I48411; MUID:88203221; PMID:2896332  
A;Accession: I48411  
A;Status: translation not shown; translated from GB/EMBL/DBJ  
A;Molecule type: mRNA  
A;Residues: 1-217 <RES>  
A;Cross-references: UNIPARC:UPI0000029981; EMBL:X06762; NID:G51389; PIDN:CAA29934.1; PI  
C;Genetics:  
A;Gene: Hox-2.3  
A;Map position: 11  
C;Superfamily: homeotic protein Hox A7; homeobox homology  
C;Keywords: DNA binding; homeobox; nucleus; transcription regulation  
F;138-194/Domain: homeobox homology <Hox>

Query Match 50.0%; Score 37; DB 1; Length 217;  
Best Local Similarity 50.0%; Pred. No. 29;  
Matches 6; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 2 GYGMAISKINLH 13  
|||:| |  
DB 77 GYGLEPSSFNMH 88

RESULT 25  
A69951  
N-acetylmuramoyl-L-alanine amidase homolog yqeE - Bacillus subtilis  
C;Species: Bacillus subtilis  
C;Date: 05-Dec-1997 #sequence\_revision 05-Dec-1997 #text\_change 09-Jul-2004  
C;Accession: A69951  
R;Kunst, F.; Ogasawara, N.; Moser, I.; Albertini, A.M.; Alloni, G.; Azevedo, V.; Berte  
C.; Bron, S.; Brouillet, S.; Bruschi, C.V.; Caldwell, B.; Capuano, V.; Carter, N.M.; Ch  
A.; Ehrlich, S.D.; Emmerson, P.T.; Entian, K.D.; Errington, J.; Fabret, C.; Ferrari, E.  
Nature 390, 249-256, 1997  
A;Authors: Foulger, D.; Fritz, C.; Fujita, M.; Fujita, Y.; Fuma, S.; Galizzi, A.; Galle  
iech, J.; Harwood, C.R.; Henaut, A.; Hilbert, H.; Holtsappel, S.; Hosono, S.; Hullo, M.F  
Koster, P.; Konigstein, G.; Krogh, S.; Kumano, M.; Kurita, K.; Lapidus, A.; Lardinois  
A;Authors: Lauber, J.; Lazarevic, V.; Lee, S.M.; Levine, A.; Liu, H.; Masuda, S.; Mauee  
Y, M.; Ogawa, K.; Ogiwara, A.; Oudega, B.; Park, S.H.; Parro, V.; Pohl, T.M.; Portetell  
Rieger, M.; Rivolta, C.; Rocha, E.; Roche, B.; Rose, M.; Sadate, J.; Sato, T.; Scanlon  
A;Authors: Schleich, S.; Schroeter, R.; Scoffone, F.; Sekiguchi, J.; Sekowska, A.; Sero  
akeuchi, M.; Tamakoshi, A.; Tanaka, T.; Terpstra, P.; Tognoni, A.; Tosato, V.; Uchiyama  
T.; Winters, P.; Wipat, A.; Yamamoto, H.; Yamane, K.; Yasumoto, K.; Yata, K.; Yoshida,  
A;Authors: Yoshikawa, H.F.; Zumstein, E.; Yoshikawa, H.; Danchin, A.  
A;Title: The complete genome sequence of the Gram-positive bacterium Bacillus subtilis.  
A;Reference number: A69580; MUID:98044033; PMID:9384377  
A;Accession: A69581  
A;Status: preliminary; nucleic acid sequence not shown; translation not shown  
A;Molecule type: DNA  
A;Residues: 1-250 <KUN>  
A;Cross-references: UNIPROT:P54450; UNIPARC:UPI000006076F; GB:Z99117; GB:AL009126; NID:  
A;Experimental source: strain 168  
C;Genetics:  
A;Gene: yqeE  
C;Superfamily: Bacillus N-acetylmuramoyl-L-alanine amidase

Query Match 50.0%; Score 37; DB 2; Length 250;  
 Best Local Similarity 53.8%; Pred. No. 34;  
 Matches 7; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

Qy 2 GYGMAISKINLN 14  
 ||||| : : : :  
 Db 18 GYAMAPAYITHN 30

RESULT 26  
 T40989  
 probable d-amino acid oxidase - fission yeast (Schizosaccharomyces pombe)  
 C;Species: Schizosaccharomyces pombe  
 C;Date: 03-Dec-1999 #sequence\_revision 03-Dec-1999 #text\_change 09-Jul-2004  
 C;Accession: T40989  
 R;Lyne, M.; Rajandream, M.A.; Barrell, B.G.; Volckaert, G.  
 submitted to the EMBL Data Library, March 1999  
 A;Reference number: Z21962  
 A;Accession: T40989  
 A;Status: preliminary; translated from GB/EMBL/DDBJ  
 A;Molecule type: DNA  
 A;Residues: 1-348 <LYN>  
 A;Cross-references: UNIPROT:Q9Y7N4; UNIPARC:UPI000006B2DF; EMBL:AL049559; PIDN:CA840174.  
 C;Genetics:  
 A;Gene: SPDB:SPCC1450.07c  
 A;Map position: 3  
 C;Superfamily: D-amino-acid oxidase

Query Match 50.0%; Score 37; DB 2; Length 348;  
 Best Local Similarity 63.6%; Pred. No. 49;  
 Matches 7; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 2 GYGMAISKINLN 12  
 ||||| : :  
 Db 330 GYGMAISDVM 340

RESULT 27  
 S27530  
 sporulation protein - Clostridium acetobutylicum  
 C;Species: Clostridium acetobutylicum  
 C;Date: 06-Jan-1995 #sequence\_revision 06-Jan-1995 #text\_change 09-Jul-2004  
 R;Reid, S.J.; Hancock, K.; Santangelo, J.D.; Woods, D.R.  
 submitted to the EMBL Data Library, March 1992  
 A;Description: Cloning and sequencing of a spoIID gene from Clostridium acetobutylicum.  
 A;Reference number: S27530  
 A;Accession: S27530  
 A;Status: preliminary  
 A;Molecule type: DNA  
 A;Residues: 1-362 <REI>  
 A;Cross-references: UNIPROT:Q45833; UNIPARC:UPI0000057749; EMBL:M87835; NID:g144914; PIDN:G144914;  
 C;Superfamily: stage II sporulation protein D

Query Match 50.0%; Score 37; DB 2; Length 362;  
 Best Local Similarity 53.8%; Pred. No. 51;  
 Matches 7; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

Qy 2 GYGMAISKINLN 14  
 ||||| : : : :  
 Db 35 GSGFSSISKFNLDN 47

RESULT 28  
 A84963  
 Probable proteinase sohb [imported] - Buchnera sp. (strain APS)  
 C;Species: Buchnera sp.  
 C;Date: 02-Mar-2001 #sequence\_revision 02-Mar-2001 #text\_change 31-Dec-2004  
 C;Accession: A84963  
 R;Shigenobu, S.; Watanabe, H.; Hattori, M.; Sakaki, Y.; Ishikawa, H.  
 Nature 407, 81-86, 2000

A;Title: Genome sequence of the endocellular bacterial symbiont of aphids Buchnera sp. A  
 A;Reference number: A84930; MUID:20445173; PMID:10993077  
 A;Accession: A84963  
 A;Status: preliminary  
 A;Molecule type: DNA  
 A;Residues: 1-362 <STO>  
 A;Cross-references: UNIPARC:UPI000005E514; GB:AP000398; GSPDB:GN00144  
 A;Experimental source: strain APS  
 C;Genetics:  
 A;Gene: sohB; BU283  
 C;Superfamily: short protease IV-related protein

Query Match 50.0%; Score 37; DB 2; Length 362;  
 Best Local Similarity 60.0%; Pred. No. 51;  
 Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 2 GYGMAISKIN 11  
 ||||| : : : :  
 Db 165 GYGMAISQLN 174

RESULT 29  
 H69505  
 conserved hypothetical protein AF2049 - Archaeoglobus fulgidus  
 C;Species: Archaeoglobus fulgidus  
 C;Date: 05-Dec-1997 #sequence\_revision 05-Dec-1997 #text\_change 09-Jul-2004  
 C;Accession: H69505  
 R;Klenk, H.P.; Clayton, R.A.; Tomb, J.P.; White, O.; Nelson, K.E.; Ketchum, K.A.; Dodson  
 ; Fleischmann, R.D.; Quackenbush, J.; Lee, N.H.; Sutton, G.G.; Gill, S.; Kirkness, E.F  
 ; Glodek, A.; Zhou, L.; Overbeek, R.; Gocayne, J.D.; Weidman, J.F.; McDonald, L.  
 Nature 390, 364-370, 1997  
 A;Authors: Utterback, T.; Cotton, M.D.; Spriggs, T.; Artiaich, P.; Kaine, B.P.; Sykes, S  
 Smith, H.O.; Woese, C.R.; Venter, J.C.  
 A;Title: The complete genome sequence of the hyperthermophilic, sulfate-reducing archaeo  
 A;Reference number: A69250; MUID:98049343; PMID:9389475  
 A;Accession: H69505  
 A;Status: preliminary; nucleic acid sequence not shown; translation not shown  
 A;Molecule type: DNA  
 A;Residues: 1-378 <KLE>  
 A;Cross-references: UNIPROT:O28230; UNIPARC:UPI0000056AAD; GB:AE000961; GB:AE000782; NID

Query Match 50.0%; Score 37; DB 2; Length 378;  
 Best Local Similarity 58.3%; Pred. No. 54;  
 Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 1 MGYGMALSKINLN 12  
 ||||| : : : :  
 Db 118 MGYGMALSKINLN 129

RESULT 30  
 A12206  
 hypothetical protein all3208 [imported] - Nostoc sp. (strain PCC 7120)  
 C;Species: Nostoc sp. PCC 7120  
 A;Note: Nostoc sp. strain PCC 7120 is a synonym of Anabaena sp. strain PCC 7120  
 C;Date: 14-Dec-2001 #sequence\_revision 14-Dec-2001 #text\_change 09-Jul-2004  
 C;Accession: A12206  
 R;Kaneko, T.; Nakamura, Y.; Wolk, C.P.; Kuritz, T.; Sasamoto, S.; Watanabe, A.; Iriguchi  
 ; Nakaki, N.; Shimpo, S.; Sugimoto, M.; Takazawa, M.; Yamada, M.; Yasuda, M.; Tabata, S  
 DNA Res. 8, 205-213, 2001  
 A;Title: Complete Genomic Sequence of the Filamentous Nitrogen-fixing Cyanobacterium Ana  
 A;Reference number: AB1807; MUID:21595285; PMID:11759840  
 A;Accession: A12206  
 A;Status: preliminary  
 A;Molecule type: DNA  
 A;Residues: 1-394 <NR>  
 A;Cross-references: UNIPROT:Q8YS83; UNIPARC:UPI00000CE5E4; GB:BA000019; PIDN:BA874907.1,  
 A;Experimental source: strain PCC 7120  
 C;Genetics:  
 A;Gene: all3208  
 C;Superfamily: Synchocystis hypothetical protein slr1087

Query Match 50.0%; Score 37; DB 2; Length 394;

Best Local Similarity 50.0%; Pred. No. 56;  
Matches 6; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 1 MGYGMSKINL 12  
:|:|:|:|:|  
Db 286 LGFVALFKVSL 297

RESULT 31  
S66740  
probable transcription factor YOL055c - yeast (Saccharomyces cerevisiae)  
N/Alternate names: protein O1239  
C/Species: Saccharomyces cerevisiae  
C/Date: 12-Jul-1996 #sequence revision 12-Jul-1996 #text\_change 09-Jul-2004  
C/Accession: S66740; S66747; S59294; S61724  
R/Ansoorge, W.; Benes, V.; Rechmann, S.; Schwarze, C.; Teodoru, C.; Voss, H.; Wiemann, S.  
submitted to the Protein Sequence Database, July 1996  
A/Reference number: S66723  
A/Accession: S66740  
A/Molecule type: DNA  
A/Residues: 1-551 <ANS>  
A/Cross-references: UNIPROT:Q08224; UNIPARC:UPI000006B390; EMBL:Z74797; NID:G1419864; PID:G1419864  
A/Experimental source: strain S288C  
R/Feldmann, H.; Mannhaupt, G.; Vetter, I.  
submitted to the EMBL Data Library, August 1995  
A/Reference number: S66743  
A/Accession: S66747  
A/Molecule type: DNA  
A/Residues: 1-551 <FEL>  
A/Cross-references: UNIPARC:UPI000006B390; EMBL:Z74797; NID:G1419864; PID:e251864; PID:G1419864  
A/Experimental source: strain S288C  
R/Mannhaupt, G.; Vetter, I.; Schwarze, C.; Mitzel, S.; Feldmann, H.  
submitted to the EMBL Data Library, August 1995  
A/Description: Analysis of a 26kb region on the left arm of yeast chromosome XV.  
A/Reference number: S59285  
A/Accession: S59294  
A/Molecule type: DNA  
A/Residues: 1-543 <FEW>  
A/Cross-references: UNIPARC:UPI000006ACE0; EMBL:X91067; NID:G984177; PID:G984187  
R/Mannhaupt, G.; Vetter, I.; Schwarze, C.; Mitzel, S.; Feldmann, H.  
Yeast 12, 67-76, 1996  
A/Title: Analysis of a 26 kb region on the left arm of yeast chromosome XV.  
A/Reference number: S61715; MUID:96381248; PMID:8789261  
A/Accession: S61724  
A/Status: nucleic acid sequence not shown; translation not shown  
A/Molecule type: DNA  
A/Residues: 1-543 <MAN>  
A/Cross-references: UNIPARC:UPI000006ACE0; EMBL:X91067; NID:G984177; PIDN:CAA62531.1; PIDN:CAA62531.1; PIDN:CAA62531.1  
A/Note: the nucleotide sequence was submitted to the EMBL Data Library, August 1995  
C/Genetics:  
A/Gene: SGD:THI20  
A/Cross-references: SGD:S0005416  
A/Map position: 15L

Query Match 50.0%; Score 37; DB 2; Length 551;  
Best Local Similarity 70.0%; Pred. No. 81;  
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 MGYGMSKSI 10  
|||:|:|:  
Db 470 MGYGALTRM 479

RESULT 32  
VCNVH3  
capsid-associated protein - Autographa californica nuclear polyhedrosis virus  
C/Species: Autographa californica nuclear polyhedrosis virus, AcMNPV  
C/Date: 30-Jun-1993 #sequence revision 30-Jun-1993 #text\_change 09-Jul-2004  
C/Accession: A43376; A72863; S27897  
R/Lu, A.; Carstens, E.B.  
Virology 190, 201-209, 1992  
A/Title: Nucleotide sequence and transcriptional analysis of the p80 gene of Autographa id-associated gene.

A/Reference number: A43376; MUID:92410596; PMID:1529529  
A/Accession: A43376  
A/Molecule type: DNA  
A/Residues: 1-691 <LUA>  
A/Cross-references: UNIPROT:Q00733; UNIPARC:UPI00000138C95; GB:M94914; NID:G332467; PIDN:G332467  
A/Experimental source: strain HR3  
R/Ayres, M.D.; Howard, S.C.; Kuzio, J.; Lopez-Ferber, M.; Possee, R.D.  
Virology 202, 586-605, 1994  
A/Title: The complete DNA sequence of Autographa californica nuclear polyhedrosis virus  
A/Reference number: A72850; MUID:94303173; PMID:8030224  
A/Accession: A72863  
A/Status: preliminary  
A/Molecule type: DNA  
A/Residues: 1-691 <AYR>  
A/Cross-references: UNIPARC:UPI00000138C95; GB:L22858; NID:G510708; PIDN:AAA66734.1; PIDN:AAA66734.1  
C/Genetics:  
A/Gene: p80; Ac-vp80  
A/Map position: 67.2-68.5  
C/Superfamily: baculovirus p87 capsid protein  
C/Keywords: capsid protein; glycoprotein  
F:2,71,102,319/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 50.0%; Score 37; DB 1; Length 691;  
Best Local Similarity 50.0%; Pred. No. 1e+02;  
Matches 6; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 3 YGMALSKINLHN 14  
|||:|:|:  
Db 527 YGSLKRLNLYN 538

RESULT 33  
T41845  
VP80 orf104 - Bombyx mori nuclear polyhedrosis virus (isolate T3)  
C/Species: Bombyx mori nuclear polyhedrosis virus, BmSNPV  
A/Variety: isolate T3  
C/Date: 03-Dec-1999 #sequence\_revision 03-Dec-1999 #text\_change 09-Jul-2004  
C/Accession: T41845  
R/Gomi, S.; Majima, K.; Maeda, S.  
J. Gen. Virol. 80, 1323-1337, 1999  
A/Title: Sequence analysis of the genome of Bombyx mori nucleopolyhedrovirus.  
A/Reference number: Z22020; MUID:99281911; PMID:10355780  
A/Accession: T41845  
A/Status: preliminary; translated from GB/EMBL/DBJ  
A/Molecule type: DNA  
A/Residues: 1-692 <XAM>  
A/Cross-references: UNIPROT:O92464; UNIPARC:UPI00000F9A16; EMBL:L33180; NID:G3745835; P  
A/Experimental source: isolate T3  
C/Genetics:  
A/Note: vp80  
C/Superfamily: baculovirus p87 capsid protein

Query Match 50.0%; Score 37; DB 2; Length 692;  
Best Local Similarity 50.0%; Pred. No. 1e+02;  
Matches 6; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 3 YGMALSKINLHN 14  
|||:|:|:  
Db 528 YGSLKRLNLYN 539

RESULT 34  
JH0265  
DNA recombinase (EC 3.6.1.-) - Escherichia coli (strain K-12)  
N/Alternate names: RecG protein  
C/Species: Escherichia coli  
C/Date: 10-Sep-1999 #sequence\_revision 10-Sep-1999 #text\_change 09-Jul-2004  
C/Accession: JH0265; S18195; F65166  
R/Kalman, M.; Murphy, H.; Cashel, M.  
Gene 110, 95-99, 1992  
A/Title: The nucleotide sequence of recG, the distal spo operon gene in Escherichia coli  
A/Reference number: JH0265; MUID:92184121; PMID:1544582



A:Accession: JH0265  
 A:Molecule type: DNA  
 A:Residues: 1-693 <XAL>  
 A:Cross-references: UNIPROT:P24230; UNIPARC:UPI000003EB2A; GB:M64367; NID:gl47543; PIDN:  
 C:Date: 16-Feb-2001 #sequence\_revision 16-Feb-2001 #text\_change 14-Sep-2001  
 C:Accession: H86041  
 R:Perna, N.T.; Plunkett III, G.; Burland, V.; Mau, B.; Glasner, J.D.; Rose, J.D.; Mayhew,  
 iller, L.; Grobeck, E.J.; Davis, N.W.; Lim, A.; Dimalanta, E.; Potamousis, K.; Apodaca,  
 Nature 409, 529-533, 2001.  
 A:Title: Molecular organization and nucleotide sequence of the recG locus of *Escherichia*  
 A:Reference number: S18195; MUID:92041567; PMID:1938888  
 A:Accession: S18195  
 A:Status: preliminary  
 A:Molecule type: DNA  
 A:Residues: 1-693 <LJO>  
 A:Cross-references: UNIPARC:UPI000003EB2A; EMBL:X59550; NID:g42668; PIDN:CA42123.1; PID  
 R:Blattner, F.R.; Plunkett III, G.; Bloch, C.A.; Perna, N.T.; Burland, V.; Riley, M.; Co  
 .A.; Rose, D.J.; Mau, B.; Shao, Y.  
 Science 277, 1453-1462, 1997  
 A:Title: The complete genome sequence of *Escherichia coli* K-12.  
 A:Reference number: A64720; MUID:97426617; PMID:9278503  
 A:Accession: F65166  
 A:Status: preliminary; nucleic acid sequence not shown; translation not shown  
 A:Molecule type: DNA  
 A:Residues: 1-693 <BLAT>  
 A:Cross-references: UNIPARC:UPI000003EB2A; GB:AE000442; GB:U00096; NID:g2367253; PIDN:AF  
 A:Experimental source: strain K-12, substrain MG1655  
 C:Genetics:  
 A:Gene: recG  
 A:Map position: 82 min  
 C:Superfamily: DNA helicase recG  
 C:Keywords: ATP; DNA binding; hydrolase; nucleotide binding; P-loop  
 F:296-303/Region: nucleotide-binding motif A (P-loop)  
 F:393-398/Region: nucleotide-binding motif B  
 F:397-400/Region: DEXH motif  
  
 Query Match 50.0%; Score 37; DB 1; Length 693;  
 Best Local Similarity 62.5%; Pred. No. 1e+02;  
 Matches 10; Conservative 0; Mismatches 2; Indels 4; Gaps 1;  
  
 Qy 2 GYGMAALS-----KINLH 13  
 Db 16 GVGAAALSNKLAKINLH 31  
  
 RESULT 35  
 G91194  
 DNA helicase RecG [imported] - *Escherichia coli* (strain O157:H7, substrain RIMD 0509952)  
 C:Species: *Escherichia coli*  
 C:Date: 18-Jul-2001 #sequence\_revision 18-Jul-2001 #text\_change 09-Jul-2004  
 C:Accession: G91194  
 R:Hayaishi, T.; Makino, K.; Ohnishi, M.; Kurokawa, K.; Ishii, K.; Yokoyama, K.; Han, C.G.  
 gasawara, N.; Yaunaga, T.; Kuhara, S.; Shiba, T.; Hattori, M.; Shinagawa, H.  
 DNA Res. 8, 11-22, 2001  
 A:Title: Complete genome sequence of enterohemorrhagic *Escherichia coli* O157:H7 and gene  
 A:Reference number: A99629; MUID:21156231; PMID:11258796  
 A:Accession: G91194  
 A:Status: preliminary  
 A:Molecule type: DNA  
 A:Residues: 1-693 <HAY>  
 A:Cross-references: UNIPROT:Q8XD86; UNIPARC:UPI0000133577; GB:BA000007; PIDN:BA837950.1;  
 A:Experimental source: strain O157:H7, substrain RIMD 0509952  
 C:Genetics:  
 A:Gene: EC84527  
 C:Superfamily: DNA helicase recG  
  
 Query Match 50.0%; Score 37; DB 2; Length 693;  
 Best Local Similarity 62.5%; Pred. No. 1e+02;  
 Matches 10; Conservative 0; Mismatches 2; Indels 4; Gaps 1;  
  
 Qy 2 GYGMAALS-----KINLH 13  
 Db 16 GVGAAALSNKLAKINLH 31

RESULT 36  
 H86041  
 hypothetical protein recG [imported] - *Escherichia coli* (strain O157:H7, substrain EDL93  
 C:Species: *Escherichia coli*  
 C:Date: 16-Feb-2001 #sequence\_revision 16-Feb-2001 #text\_change 14-Sep-2001  
 C:Accession: H86041  
 R:Perna, N.T.; Plunkett III, G.; Burland, V.; Mau, B.; Glasner, J.D.; Rose, J.D.; Mayhew,  
 iller, L.; Grobeck, E.J.; Davis, N.W.; Lim, A.; Dimalanta, E.; Potamousis, K.; Apodaca,  
 Nature 409, 529-533, 2001.  
 A:Title: Genome sequence of enterohemorrhagic *Escherichia coli* O157:H7.  
 A:Reference number: A85480; MUID:21074935; PMID:11206551  
 A:Accession: H86041  
 A:Status: preliminary  
 A:Molecule type: DNA  
 A:Residues: 1-704 <STO>  
 A:Cross-references: UNIPARC:UPI000016597F; GB:AE005174; NID:gl2518411; PIDN:AGS8796.1,  
 A:Experimental source: strain O157:H7, substrain EDL933  
 C:Genetics:  
 A:Gene: recG  
 C:Superfamily: DNA helicase recG  
  
 Query Match 50.0%; Score 37; DB 2; Length 704;  
 Best Local Similarity 62.5%; Pred. No. 1.1e+02;  
 Matches 10; Conservative 0; Mismatches 2; Indels 4; Gaps 1;  
  
 Qy 2 GYGMAALS-----KINLH 13  
 Db 27 GVGAAALSNKLAKINLH 42  
  
 RESULT 37  
 AI2747  
 conserved hypothetical protein Atul393 [imported] - *Agrobacterium tumefaciens* (strain C5  
 C:Species: *Agrobacterium tumefaciens*  
 C:Date: 11-Jan-2002 #sequence\_revision 11-Jan-2002 #text\_change 09-Jul-2004  
 C:Accession: AI2747  
 R:Wood, D.W.; Secubal, J.C.; Kaul, R.; Monks, D.; Chen, L.; Wood, G.E.; Chen, Y.; Woo, L.  
 erage, G.; Gillet, W.; Grant, C.; Guenther, D.; Kutyavin, T.; Levy, R.; Li, M.; McClell  
 ; Karp, P.; Romero, P.; Zhang, S.  
 Science 294, 2317-2323, 2001  
 A:Authors: Yoo, H.; Tao, Y.; Biddle, P.; Jung, M.; Krespan, W.; Perry, M.; Gordon-Kamm,  
 ster, E.W.  
 A:Title: The Genome of the Natural Genetic Engineer *Agrobacterium tumefaciens* C58.  
 A:Reference number: AB2577; MUID:21608550; PMID:11743193  
 A:Accession: AI2747  
 A:Status: preliminary  
 A:Molecule type: DNA  
 A:Residues: 1-809 <KUR>  
 A:Cross-references: UNIPROT:Q8UFK4; UNIPARC:UPI00001645E0; GB:AE008688; PIDN:AAL42399.1,  
 A:Experimental source: strain C58 (Dupont)  
 C:Genetics:  
 A:Gene: Atul393  
 A:Map position: circular chromosome  
  
 Query Match 50.0%; Score 37; DB 2; Length 809;  
 Best Local Similarity 100.0%; Pred. No. 1.2e+02;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
 Qy 1 MGYGMAL 7  
 Db 524 MGYGMAL 530  
  
 RESULT 38  
 H97528  
 hypothetical protein AGR\_C\_2573 [imported] - *Agrobacterium tumefaciens* (strain C58, Cere  
 C:Species: *Agrobacterium tumefaciens*  
 C:Date: 30-Sep-2001 #sequence\_revision 30-Sep-2001 #text\_change 09-Jul-2004  
 C:Accession: H97528  
 R:Goodner, B.; Hinkle, G.; Gattung, S.; Miller, N.; Blanchard, M.; Qurollo, B.; Goldman,  
 A.; Liu, F.; Wollam, C.; Allinger, M.; Doughty, D.; Scott, C.; Lappas, C.; Markelz, B.  
 Science 294, 2323-2328, 2001  
 A:Title: Genome Sequence of the Plant Pathogen and Biotechnology Agent *Agrobacterium tum*



A:Reference number: A97359; MUID:21608551; PMID:11743194

A:Accession: H97528

A>Status: preliminary

A:Molecule type: DNA

A:Residues: 1-873 <KUR>

A:Cross-references: UNIPROT:Q8UFK4; UNIPARC:UPI00000D1B38; GB:AE007869; PIDN:AAK87185.1;

C:Genetics:

A:Gene: AGR\_C\_2573

A:Map position: circular chromosome

Query Match 50.0%; Score 37; DB 2; Length 873;

Best Local Similarity 100.0%; Pred. No. 1.3e+02;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGYGMAL 7

|||||

Db 588 MGYGMAL 594

#### RESULT 39

F72592

hypothetical protein APES043 - Aeropyrum pernix (strain K1)

C:Species: Aeropyrum pernix

C>Date: 20-Aug-1999 #sequence\_revision 20-Aug-1999 #text\_change 09-Jul-2004

C:Accession: F72592

R;Kawarabayashi, Y.; Hino, Y.; Horikawa, H.; Yamazaki, S.; Haikawa, Y.; Jin-no, K.; Takah

awa, H.; Takamiya, M.; Masuda, S.; Funahashi, T.; Tanaka, T.; Kudoh, Y.; Yamazaki, J.; K

DNA Res. 6, 83-101, 1999

A:Title: Complete genome sequence of an aerobic hyper-thermophilic Crenarchaeon, Aeropyr

A:Reference number: A72450; MUID:99310339; PMID:10382966

A:Accession: F72592

A>Status: preliminary

A:Molecule type: DNA

A:Residues: 1-79 <KAW>

A:Cross-references: UNIPROT:Q9YCQ1; UNIPARC:UPI000005DE61; DBJ:AP000061; NID:G5104821;

A:Experimental source: strain K1

C:Genetics:

A:Gene: APES043

Query Match 48.6%; Score 36; DB 2; Length 79;

Best Local Similarity 60.0%; Pred. No. 15;

Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 MGYGMALSKI 10

||:|:|:

Db 1 MGWGCAMSKV 10

#### RESULT 40

H83643

polypeptide deformylase PA0019 [imported] - Pseudomonas aeruginosa (strain PA01)

C:Species: Pseudomonas aeruginosa

C>Date: 15-Sep-2000 #sequence\_revision 15-Sep-2000 #text\_change 09-Jul-2004

C:Accession: H83643

R;Stover, C.K.; Pham, X.Q.; Erwin, A.L.; Mizoguchi, S.D.; Warrenner, P.; Hickey, M.J.; B

adman, S.; Yuan, Y.; Brody, L.L.; Coulter, S.N.; Folger, K.R.; Kas, A.; Larbig, K.; Lam,

.; Lory, S.; Olson, M.V.

Nature 406, 959-964, 2000

A:Title: Complete genome sequence of Pseudomonas aeruginosa PA01, an opportunistic patho

A:Reference number: A82950; MUID:20437337; PMID:10984043

A:Accession: H83643

A>Status: preliminary

A:Molecule type: DNA

A:Residues: 1-168 <STO>

A:Cross-references: UNIPROT:Q9I7A8; UNIPARC:UPI000012915C; GB:AE004441; GB:AE004091; NID

A:Experimental source: strain PA01

C:Genetics:

A:Gene: def; PA0019

C:Superfamily: peptide deformylase

Query Match 48.6%; Score 36; DB 2; Length 168;

Best Local Similarity 41.7%; Pred. No. 34;

Matches 5; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 2 GYGMALSKINLH 13

|:|:|:|:

Db 44 GIGLAATQNVNH 55

Search completed: May 13, 2006, 08:14:40

Job time : 42 secs





```

Db          100 MGYGMAISKINLH 112

RESULT 3
O85056 MORCA
ID 085050 MORCA PRELIMINARY; PRT; 714 AA.
AC O85056;
DT 01-NOV-1998 (TREMELrel. 08, Created)
DT 01-NOV-1998 (TREMELrel. 08, Last sequence update)
DE Transferrin binding protein B.
GN Name=tbpB;
OS Moraxella catarrhalis.
OC Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales;
OC Moraxellaceae; Moraxella.
OX NCBI_TaxID=480;
RN [1];
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=M35; PubMed=9712766;
RA Myers L.E., Yang Y.P., Du R.P., Wang Q., Harkness R.E.,
RA Schryvers A.B., Klein M.H., Loosmore S.M.;
RT "The transferrin binding protein B of Moraxella catarrhalis elicits
RT bactericidal antibodies and is a potential vaccine antigen.";
RL Infect. Immun. 66:4183-4192(1998).
DR EMBL; AF039312; AAC34277.1; -; Genomic_DNA.
DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR001677; Transferrin_bind.
DR Pfam; PF01298; Lipoprotein_5; 1.
SQ SEQUENCE 714 AA; 76846 MW; F5B1174C4815B4EA CRC64;

Query Match 85.1%; Score 63; DB 2; Length 714;
Best Local Similarity 85.7%; Pred. No. 0.019;
Matches 12; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy          1 MGYGMAISKINLH 14
Db          100 MGYGMAISKINLH 113

RESULT 4
YAAH ECOLI
ID YAAH_ECOLI STANDARD; PRT; 188 AA.
AC P28695; O8K0W2;
DT 01-DEC-1992 (Rel. 24, Created)
DT 01-DEC-1992 (Rel. 24, Last sequence update)
DE Inner membrane protein yaaH.
GN Name=yaaH; OrderedLocusNames=b0010, z0010, ECs0010, SF0011, S0010;
OS Escherichia coli,
OS Escherichia coli O157:H7, and
OS Shigella flexneri.
OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
OC Enterobacteriaceae; Escherichia.
OX NCBI_TaxID=562, 83334, 623;
RN [1];
RP NUCLEOTIDE SEQUENCE.
RC SPECIES=E.coli; PubMed=8400364;
RX MEDLINE=94003405; PubMed=8400364;
RA James R., Bean D.O. Debbage J.;
RT "Five open reading frames upstream of the dnaK gene of E. coli.";
RL DNA Seq. 3:327-332(1993).
RN [2];
RP NUCLEOTIDE SEQUENCE.
RC SPECIES=E.coli; STRAIN=K12;
RX MEDLINE=92334977; PubMed=1630901;
RA Yura T., Mori H., Nagai H., Nagata T., Ishihama A., Fujita N.,
RA Isono K., Mizobuchi K., Nakata A.;
RT "Systematic sequencing of the Escherichia coli genome: analysis of the
RT 0-2.4 min region.";
RL Nucleic Acids Res. 20:3305-3308(1992).

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RN NP NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RC SPECIES=E.coli; STRAIN=K12 / MG1655;
RX MEDLINE=97426617; PubMed=9278503; DOI=10.1126/science.277.5331.1453;
RA Blattner F.R., Plunkett G. III, Bloch C.A., Perna N.T., Burland V.,
RA Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew G.F.,
RA Gregor J., Davis N.W., Kirkpatrick H.A., Goeden M.A., Rose D.J.,
RA Mau B., Shao Y.;
RT "The complete genome sequence of Escherichia coli K-12.";
RL Science 277:1453-1474 (1997).
RN NP NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RC SPECIES=E.coli; STRAIN=O157:H7 / EDL933 / ATCC 700927 / EHEC;
RX MEDLINE=21074935; PubMed=11206551; DOI=10.1038/35054089;
RA Perna N.T., Plunkett G. III, Burland V., Mau B., Glasner J.D.,
RA Rose D.J., Mayhew G.F., Evans P.S., Gregor J., Kirkpatrick H.A.,
RA Postfai G., Hackett J., Klink S., Boutin A., Shao Y., Miller L.,
RA Grobeck E.J., Davis N.W., Lim A., Dimalanta E.T., Potamousis K.,
RA Apodaca J., Anantharaman T.S., Lin J., Yen G., Schwartz D.C.,
RA Welch R.A., Blattner F.R.;
RT "Genome sequence of enterohaemorrhagic Escherichia coli O157:H7.";
RL Nature 409:529-533 (2001).
RN NP NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RC SPECIES=E.coli; STRAIN=O157:H7 / Sakai / RIMD 0509952 / EHEC;
RX MEDLINE=21156231; PubMed=11258796;
RA Hayaishi T., Makino K., Ohnishi M., Kurokawa K., Ishii K., Yokoyama K.,
RA Han C.-G., Ohtsubo E., Nakayama K., Murata T., Tanaka M., Tobe T.,
RA Iida T., Takami H., Honda T., Sasakawa C., Ogasawara N., Yasunaga T.,
RA Kuhara S., Shiba T., Hattori M., Shinagawa H.;
RT "Complete genome sequence of enterohemorrhagic Escherichia coli
O157:H7 and genomic comparison with a laboratory strain K-12.";
RL DNA Res. 8:11-22 (2001).
RN NP NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RC SPECIES=S.flexneri; STRAIN=301 / Serotype 2a;
RX MEDLINE=22272406; PubMed=12384590; DOI=10.1093/nar/gkf566;
RA Jin Q., Yuan Z., Xu J., Wang Y., Shen Y., Lu W., Wang J., Liu H.,
RA Yang J., Yang F., Zhang X., Zhang J., Yang G., Wu H., Qu D., Dong J.,
RA Sun L., Xue Y., Zhao A., Gao Y., Zhu J., Kan B., Ding K., Chen S.,
RA Cheng H., Yao Z., He B., Chen R., Ma D., Qiang B., Wen Y., Hou Y.,
RA Yu J.;
RT "Genome sequence of Shigella flexneri 2a: insights into pathogenicity
through comparison with genomes of Escherichia coli K12 and O157.";
RL Nucleic Acids Res. 30:4432-4441 (2002).
RN NP NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RC SPECIES=S.flexneri; STRAIN=2457T / ATCC 700930 / Serotype 2a;
RX MEDLINE=22590274; PubMed=12704152;
RA Wei J., Goldberg M.B., Burland V., Venkatesan M.M., Deng W.,
RA Fournier G., Mayhew G.F., Plunkett G. III, Rose D.J., Darling A.,
RA Mau B., Perna N.T., Payne S.M., Runyen-Janecky L.J., Zhou S.,
RA Schwartz D.C., Blattner F.R.;
RT "Complete genome sequence and comparative genomics of Shigella
flexneri serotype 2a strain 2457T.";
RL Infect. Immun. 71:2775-2786 (2003).
RN NP TOPOLOGY.
RC SPECIES=E.coli; STRAIN=K12 / MG1655;
RX PubMed=15919996; DOI=10.1126/science.1109730;
RA Daley D.O., Rapp M., Graneth E., Melen K., Drew D., von Heijne G.;
RT "Global topology analysis of the Escherichia coli inner membrane
proteome.";
RL Science 308:1321-1323 (2005).
CC -1- SUBCELLULAR LOCATION: Integral membrane protein. Inner membrane.
CC -1- SIMILARITY: Belongs to the GPR1/FUN34/yaah family.
CC This Swiss-Prot entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use as long as its content is in no way modified and this statement is not
CC removed.

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CC EMBL: X67700; CAA47931.1; -; Genomic_DNA.
DR EMBL: D10483; BAB96588.1; -; Genomic_DNA.
DR EMBL: U00096; AAC73121.1; -; Genomic_DNA.
DR EMBL: AE005174; AAG54310.1; -; Genomic_DNA.
DR EMBL: BA000007; BAB33433.1; -; Genomic_DNA.
DR EMBL: AE005674; AAN41677.1; -; Genomic_DNA.
DR EMBL: AE016978; AAP15556.1; -; Genomic_DNA.
DR PIR: B85481; B85481.
DR PIR: B90630; B90630.
DR PIR: E56688; E56688.
DR EcoGene; EBI1512; yaah.
DR InterPro; IPR000791; Grp1_Fun34_Yeah.
DR Pfam; PF01184; Grp1_Fun34_Yeah; 1.
DR ProDom; PD010188; Grp1_Fun34_Yeah; 1.
DR PROSITE; PS01114; GPR1_FUN34_YAAH; 1.
KW Complete proteome; Inner membrane; Membrane; Transmembrane.
FT TOPO_DOM 1 13 Cytoplasmic (Potential).
FT TRANSMEM 14 34 Potential.
FT TOPO_DOM 35 35 Periplasmic (Potential).
FT TRANSMEM 36 56 Potential.
FT TOPO_DOM 57 63 Cytoplasmic (Potential).
FT TRANSMEM 64 84 Potential.
FT TOPO_DOM 85 97 Periplasmic (Potential).
FT TRANSMEM 98 118 Potential.
FT TOPO_DOM 119 122 Cytoplasmic (Potential).
FT TRANSMEM 123 143 Potential.
FT TOPO_DOM 144 148 Periplasmic (Potential).
FT TRANSMEM 149 169 Potential.
FT TOPO_DOM 170 188 Cytoplasmic (Potential).
FT CONFLICT 111 111 L -> V (in Ref. 2).
SQ SEQUENCE 188 AA; 20071 MW; 972101DD5949EBF4 CRC64;

Query Match 62.2%; Score 46; DB 1; Length 188;
Best Local Similarity 57.1%; Pred. No. 6.4;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 1 MCGYGNALSKINLHN 14
DB 15 MGFGMTTILLNLHN 28

RESULT 5
Q57TP6_SALCH
ID Q57TP6_SALCH PRELIMINARY; PRT; 188 AA.
AC Q57TP6;
DT 10-MAY-2005 (TrEMBLrel. 30, Created)
DT 10-MAY-2005 (TrEMBLrel. 30, Last sequence update)
DT 10-MAY-2005 (TrEMBLrel. 30, Last annotation update)
DE Putative regulator.
GN Names=yaah; OrderedlocusNames=SC0009;
OS Salmonella cholerae-suis (Salmonella enterica).
OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
OC Enterobacteriaceae; Salmonella.
OX NCBI_TaxID=591;
RN [1]
RP NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RC STRAIN=SC-B67;
RX PubMed=15781495;
RA Chiu C.-H., Tang P., Chu C., Hu S., Bao Q., Yu J., Chou Y.-Y.,
RA Wang H.-S., Lee Y.-S.;
RT "The genome sequence of Salmonella enterica serovar Choleraesuis, a
RT highly invasive and resistant zoonotic pathogen.";
RL Nucleic Acids Res. 33:1690-1698 (2005).
DR EMBL: AE017220; AAX63915.1; -; Genomic_DNA.
KW Complete proteome.
SQ SEQUENCE 188 AA; 19933 MW; 4D655AC780BBB808 CRC64;

Query Match 62.2%; Score 46; DB 2; Length 188;
Best Local Similarity 57.1%; Pred. No. 6.4;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

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OY 1 MGYGMALSKINLHN 14
DB 15 MGFQMTTILLNLN 28

RESULT 6
QSPDN1_SALPA
ID QSPDN1_SALPA PRELIMINARY; PRT; 188 AA.
AC QSPDN1; 2005 (T-EMBLrel. 29, Created)
DT 01-FEB-2005 (T-EMBLrel. 29, Last sequence update)
DT 01-FEB-2005 (T-EMBLrel. 29, Last annotation update)
DE Hypothetical protein yaah.
GN Name=yaah; OrderedLocusNames=SPA0009;
OS Salmonella paratyphi-a.
OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
OC Enterobacteriaceae; Salmonella.
OX NCBI_TaxID=54388;
RN NUCLEOTIDE SEQUENCE.
RP STRAIN=ATCC 9150;
RC PubMed=15531882; DOI=10.1038/ng1470;
RA McClelland M., Sanderson K.E., Clifton S.W., Latreille P.,
RA Porwollik S., Sabo A., Meyer R., Bieri T., Ozersky P., McCellan M.,
RA Watkins C.R., Wang C., Nguyen C., Berghoff A., Elliott G.,
RA Kohlberg S., Strong C., Du F., Carter J., Krenitzki C., Layman D.,
RA Leonard S., Sun H., Fullon L., Nash W., Miner T., Minx P.,
RA Delehaunty K., Fronick C., Magrini V., Nhan M., Warren W., Florea L.,
RA Spieth J., Wilson R.K.;
RT "Comparison of genome degradation in Paratyphi A and Typhi, human-
RT restricted serovars of Salmonella enterica that cause typhoid.";
RL Nat. Genet. 36:1268-1274 (2004).
DR EMBL; CP000026; AAV76047.1; -; Genomic_DNA.
DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR000791; Grp1_Fun34_Yaah.
DR Pfam; PF01184; Grp1_Fun34_Yaah; 1.
DR ProDom; PD010188; Grp1_Fun34_Yaah; 1.
DR PROSITE; PS01114; GRP1_FUN34_YAAB; 1.
KW Complete proteome; Hypothetical protein.
SQ SEQUENCE 188 AA; 19962 MW; 9CE9B7D3D1BEAD41 CRC64;

Query Match 62.2%; Score 46; DB 2; Length 188;
Best Local Similarity 57.1%; Pred. No. 6.4;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

OY 1 MGYGMALSKINLHN 14
DB 15 MGFQMTTILLNLN 28

RESULT 7
Q7CRA2_SALTY
ID Q7CRA2_SALTY PRELIMINARY; PRT; 188 AA.
AC Q7CRA2;
DT 05-JUL-2004 (T-EMBLrel. 27, Created)
DT 05-JUL-2004 (T-EMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (T-EMBLrel. 27, Last annotation update)
DE Putative regulatory protein.
GN Name=yaah; OrderedLocusNames=STM0009;
OS Salmonella typhimurium.
OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
OC Enterobacteriaceae; Salmonella.
OX NCBI_TaxID=602;
RN NUCLEOTIDE SEQUENCE.
RP STRAIN=LT2;
RC MEDLINE=21534948; PubMed=11677609; DOI=10.1038/35101614;
RA McClelland M., Sanderson K.E., Spieth J., Clifton S.W., Latreille P.,
RA Courtney L., Porwollik S., Ali J., Dante M., Du R., Hou S., Layman D.,
RA Leonard S., Nguyen C., Scott K., Holmes A., Grewal N., Mulvaney E.,
RA Ryan E., Sun H., Florea L., Miller W., Stoneking T., Nhan M.,
RA Waterston K., Wilson R.K.;
RT "Complete genome sequence of Salmonella enterica serovar Typhimurium
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LT2.";
RT Nature 413:852-856 (2001).
DR EMBL; AE008693; AAL18973.1; -; Genomic_DNA.
DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR000791; Grp1_Fun34_Yaah.
DR Pfam; PF01184; Grp1_Fun34_Yaah; 1.
DR ProDom; PD010188; Grp1_Fun34_Yaah; 1.
DR PROSITE; PS01114; GRP1_FUN34_YAAB; 1.
KW Complete proteome.
SQ SEQUENCE 188 AA; 19933 MW; 4D655AC780BBB808 CRC64;

Query Match 62.2%; Score 46; DB 2; Length 188;
Best Local Similarity 57.1%; Pred. No. 6.4;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

OY 1 MGYGMALSKINLHN 14
DB 15 MGFQMTTILLNLN 28

RESULT 8
Q8FLC8_ECOL6
ID Q8FLC8_ECOL6 PRELIMINARY; PRT; 188 AA.
AC Q8FLC8;
DT 01-MAR-2003 (T-EMBLrel. 23, Created)
DT 01-MAR-2003 (T-EMBLrel. 23, Last sequence update)
DT 01-OCT-2003 (T-EMBLrel. 25, Last annotation update)
DE Hypothetical protein yaah.
GN Name=yaah; OrderedLocusNames=c0015;
OS Escherichia coli O6.
OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
OC Enterobacteriaceae; Escherichia.
OX NCBI_TaxID=217992;
RN NUCLEOTIDE SEQUENCE.
RP STRAIN=O6:H1 / CFT073 / ATCC 700928;
RC MEDLINE=22388234; PubMed=12471157; DOI=10.1073/pnas.252529799;
RA Welch R.A., Burland V., Plunkett G. III, Redford P., Roesch P.,
RA Rayko D., Buckles E.L., Liou S.-R., Boutin A., Hackett J., Stroud D.,
RA Mayhew G.F., Rose D.J., Zhou S., Schwartz D.C., Perna N.T.,
RA Mobley H.L.T., Donnenberg M.S., Blattner F.R.;
RT "Extensive mosaic structure revealed by the complete genome sequence
RT of uropathogenic Escherichia coli.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:17020-17024 (2002).
DR EMBL; AE016755; AAN78515.1; -; Genomic_DNA.
DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR000791; Grp1_Fun34_Yaah.
DR Pfam; PF01184; Grp1_Fun34_Yaah; 1.
DR ProDom; PD010188; Grp1_Fun34_Yaah; 1.
DR PROSITE; PS01114; GRP1_FUN34_YAAB; 1.
KW Complete proteome; Hypothetical protein.
SQ SEQUENCE 188 AA; 20085 MW; 815BBD1B23F53BF4 CRC64;

Query Match 62.2%; Score 46; DB 2; Length 188;
Best Local Similarity 57.1%; Pred. No. 6.4;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

OY 1 MGYGMALSKINLHN 14
DB 15 MGFQMTTILLNLN 28

RESULT 9
Q8XGB2_SALTI
ID Q8XGB2_SALTI PRELIMINARY; PRT; 188 AA.
AC Q8XGB2; 07ANN8;
DT 01-MAR-2002 (T-EMBLrel. 20, Created)
DT 01-MAR-2002 (T-EMBLrel. 20, Last sequence update)
DT 13-SEP-2005 (T-EMBLrel. 31, Last annotation update)
DE Hypothetical protein yaah (Hypothetical protein STY0009).
GN Name=yaah; OrderedLocusNames=STY0009, t0009;
OS Salmonella typhi
OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
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OC Enterobacteriaceae; Salmonella.
OX NCBI_TaxID=601;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=TY2 / ATCC 700931;
RX MEDLINE=22531367; PubMed=12644504;
DO=10.1128/JB.185.7.2330-2337.2003;
RA Deng W., Liou S.-R., Plunkett G. III, Mayhew G.P., Rose D.J.,
RL Burland V., Kodoyianni V., Schwartz D.C., Blattner F.R.;
RN "Comparative genomics of Salmonella enterica serovar Typhi strains Ty2
RT and CT18."
RL J. Bacteriol. 185:2330-2337(2003).
RN [2]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=CT18;
RX MEDLINE=21534947; PubMed=11677608; DOI=10.1038/35101607;
RA Parkhill J., Dougan G., James K.D., Thomson N.R., Pickard D., Wain J.,
RA Churcher C.M., Mungall K.L., Bentley S.D., Holden M.T.G., Sebaihia M.,
RA Baker S., Basham D., Brooks K., Chillingworth T., Connor P.,
RA Cronin A., Davis P., Davies R.M., Dowd L., White N., Farrar J.,
RA Felwell T., Hamlin N., Haque A., Hien T.T., Holroyd S., Jagers K.,
RA Krogh A., Larsen T.S., Leather S., Moule S., O'Gaora P., Parry C.,
RA Quail M.A., Rutherford K.M., Simmonds M., Skelton J., Stevens K.,
RA Whitehead S., Barrrell B.G.;
RT "Complete genome sequence of a multiple drug resistant Salmonella
RT enterica serovar Typhi CT18."
RL Nature 413:848-852(2001).
DR EMBL; AR016834; AAC67743.1; -; Genomic DNA.
DR EMBL; AL627265; CAD01162.1; -; Genomic_DNA.
DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR000791; Grp1_Fun34_Yaah.
DR Pfam; PF01184; Grp1_Fun34_Yaah; 1.
DR ProDom; PD010188; Grp1_Fun34_Yaah; 1.
DR PROSITE; PS01114; GPRI_FUN34_YAAH; 1.
KW Complete proteome; Hypothetical protein.
SQ SEQUENCE 188 AA; 19933 MW; 4D655AC780BBB808 CRC64;

Query Match 62.2%; Score 46; DB 2; Length 188;
Best Local Similarity 57.1%; Pred. No. 6.4;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14
DB 15 MGFGMTTILLNLHN 28

RESULT 10
Q7N8Y5 PHOLL
ID Q7N8Y5_PHOLL PRELIMINARY; PRT; 189 AA.
AC Q7N8Y5;
DT 01-MAR-2004 (TrEMBLrel. 26, Created)
DT 01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Similar to unknown protein Yaah of Escherichia coli.
GN OrderedLocNames=plu0578;
OS Photorhabdus luminescens (subsp. laumondii).
OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
OC Enterobacteriaceae; Photorhabdus.
OX NCBI_TaxID=141679;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=TT01;
RX MEDLINE=22957627; PubMed=14528314; DOI=10.1038/nbt886;
RA Duchaud E., Rusniok C., Frangeul L., Buchrieser C., Givaudan A.,
RA Taurit S., Bocs S., Bouraux-Eude C., Chandel M., Charles J.-F.,
RA Dassa E., Derose R., Derzelle S., Freysinet G., Gaudriault S.,
RA Medigue C., Lanois A., Powell K., Siguler P., Vincent R., Wingate V.,
RA Zouine M., Glaser P., Boenare N., Banchin A., Kunst F.;
RT "The genome sequence of the entomopathogenic bacterium Photorhabdus
RT luminescens."
RL Nat. Biotechnol. 21:1307-1313(2003).
DR EMBL; BX571860; CA812873.1; -; Genomic_DNA.
DR Photol1st; plu0578; -.
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DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR000791; Grp1_Fun34_Yaah.
DR Pfam; PF01184; Grp1_Fun34_Yaah; 1.
DR ProDom; PD010188; Grp1_Fun34_Yaah; 1.
KW Complete proteome.
SQ SEQUENCE 189 AA; 20289 MW; E9D5C44D35306A7F CRC64;

Query Match 62.2%; Score 46; DB 2; Length 189;
Best Local Similarity 57.1%; Pred. No. 6.4;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14
DB 15 MGFGMTTILLNLHN 28

RESULT 11
Q6D0B6 ERWCT
ID Q6D0B6_ERWCT PRELIMINARY; PRT; 191 AA.
AC Q6D0B6;
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE Putative membrane protein.
GN OrderedLocNames=ECA3883;
OS Erwinia carotovora (subsp. atroseptica) (Pectobacterium atrosepticum).
OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
OC Enterobacteriaceae; Pectobacterium.
OX NCBI_TaxID=29471;
RN [1]
RP NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RC STRAIN=SCRI 1043 / ATCC BAA-672;
RX PubMed=15263089; DOI=10.1073/pnas.0402424101;
RA Bell K.S., Sebaihia M., Pritchard L., Holden M.T.G., Hyman L.J.,
RA Holsa M.C., Thomson N.R., Bentley S.D., Churcher L.J.C., Mungall K.,
RA Atkin R., Bason N., Brooks K., Chillingworth T., Clark K., Doggett J.,
RA Fraser A., Hance Z., Hauser H., Jagers K., Moule S., Norbertczak H.,
RA Ormond D., Price C., Quail M.A., Sanders M., Walker D., Whitehead S.,
RA Salmond D.P.C., Birch P.R.J., Parkhill J., Toth I.K.;
RT "Genome sequence of the enterobacterial phytopathogen Erwinia
RT carotovora subsp. atroseptica and characterization of virulence
RT factors."
RL Proc. Natl. Acad. Sci. U.S.A. 101:11105-11110(2004).
DR EMBL; BX950851; CAG76781.1; -; Genomic_DNA.
DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR000791; Grp1_Fun34_Yaah.
DR Pfam; PF01184; Grp1_Fun34_Yaah; 1.
DR ProDom; PD010188; Grp1_Fun34_Yaah; 1.
KW Complete proteome.
SQ SEQUENCE 191 AA; 20218 MW; 475605990E163AC1 CRC64;

Query Match 62.2%; Score 46; DB 2; Length 191;
Best Local Similarity 57.1%; Pred. No. 6.5;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14
DB 15 MGFGMTTILLNLHN 28

RESULT 12
Q74Q11 YERPE
ID Q74Q11_YERPE PRELIMINARY; PRT; 196 AA.
AC Q74Q11;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Putative membrane protein.
GN OrderedLocNames=YFP3713;
OS Yersinia pestis.
OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
OC Enterobacteriaceae; Yersinia.
OX NCBI_TaxID=632;
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RN NUCLEOTIDE SEQUENCE.
RC STRAIN=91001;
RX PubMed=15368893;
RA Song Y., Tong Z., Wang J., Wang L., Guo Z., Han Y., Zhang J., Pei D.,
RA Zhou D., Qin H., Pang X., Han Y., Zhai J., Li M., Cui B., Qi Z.,
RA Jin L., Dai R., Chen F., Li S., Ye C., Du Z., Lin W., Wang J., Yu J.,
RA Yang H., Wang J., Huang P., Yang R.;
RA "Complete genome sequence of Yersinia pestis strain 91001, an isolate
RT avirulent to humans.";
RL DNA RefSeq:11179-197(2004).
DR EMBL: AE017141; RA563861.1; -; Genomic_DNA.
DR GO: GO:0016020; C:membrane; IEA.
DR InterPro: IPR000791; Grp1_Fun34_Yaah.
DR Pfam: PF01184; Grp1_Fun34_Yaah; 1.
DR ProDom: PD010188; Grp1_Fun34_Yaah; 1.
SQ SEQUENCE 196 AA; 21046 MW; B74D3F30EDC2047D CRC64;

Query Match 62.2%; Score 46; DB 2; Length 196;
Best Local Similarity 57.1%; Pred. No. 6.7;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14
||:||||:
DB 15 MGFGMTTVLLNLHN 28

RESULT 13
ID Q6MOC3 METWP PRELIMINARY; PRT; 197 AA.
AC Q6MOC3;
DT 05-JUL-2004 (T-EMBLrel. 27, Created)
DT 05-JUL-2004 (T-EMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (T-EMBLrel. 27, Last annotation update)
DE Hypothetical protein
GN OrderedLocusNames=WP0348;
OS Methanococcus maripaludis.
OC Archaea; Euryarchaeota; Methanococci; Methanococcales;
OC Methanococcaceae; Methanococcus.
OX NCBI_TaxID=39152;
RN NUCLEOTIDE SEQUENCE.
RC STRAIN=S2 / LL;
RX PubMed=15466049; DOI=10.1128/JB.186.20.6956-6969.2004;
RA Hendrickson E.L., Kaul R., Zhou Y., Bovee D., Chapman P., Chung J.,
RA Conway de Macario E., Dodsworth J.A., Gillett W., Graham D.E.,
RA Hackett M., Haydock A.K., Kang A., Land M.L., Levy R., Lie T.J.,
RA Major T.A., Moore B.C., Porat I., Palmeiri A., Rouse G.,
RA Saenphimmachak C., Soell D., Van Dien S., Wang T., Whitman W.B.,
RA Xia Q., Zhang Y., Larimer F.W., Olson M.V., Leigh J.A.;
RA "Complete genome sequence of the genetically tractable
RT hydrogenotrophic methanogen Methanococcus maripaludis.";
RL J. Bacteriol. 186:6956-6969(2004).
DR EMBL: BX957219; CAP29304.1; -; Genomic_DNA.
DR GO: GO:0016020; C:membrane; IEA.
DR InterPro: IPR000791; Grp1_Fun34_Yaah.
DR Pfam: PF01184; Grp1_Fun34_Yaah; 1.
DR ProDom: PD010188; Grp1_Fun34_Yaah; 1.
DR PROSITE: PS01114; Grp1_Fun34_YAHH; 1.
DR Complete proteome; Hypothetical protein.
KW SEQUENCE 197 AA; 21273 MW; 1C27A47FBB95A1BE CRC64;

Query Match 62.2%; Score 46; DB 2; Length 197;
Best Local Similarity 57.1%; Pred. No. 6.7;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14
||:||||:
DB 21 MGFGMTTVLLNLHN 34

RESULT 14
Q821M8_YERPE

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ID Q821M8_YERPE PRELIMINARY; PRT; 203 AA.
AC Q821M8; Q7CG75;
DT 01-MAR-2002 (T-EMBLrel. 20, Created)
DT 01-MAR-2002 (T-EMBLrel. 20, Last sequence update)
DT 01-FEB-2005 (T-EMBLrel. 29, Last annotation update)
DE Putative membrane protein (Hypothetical protein Y3707).
DE Name=yaah; OrderedLocusNames=YPO0467, Y3707;
OS Yersinia pestis.
OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
OC Enterobacteriaceae; Yersinia.
OX NCBI_TaxID=632;
RN NUCLEOTIDE SEQUENCE.
RC STRAIN=CO-92 / Biovar Orientalis;
RX MEDLINE=21470413; PubMed=11586360; DOI=10.1038/35097083;
RA Parkhill J., Wren B.W., Thomson N.R., Titball R.W., Holden M.T.G.,
RA Prentice M.B., Sebahia M., James K.D., Churcher C.M., Mungall K.L.,
RA Baker S., Basham D., Bentley S.D., Brooks K., Cerdano-Tarraga A.-M.,
RA Chillingworth T., Cronin A., Davies R.M., Davis P., Dougan G.,
RA Faltwell T., Hamlin N., Holroyd S., Jagels K., Karlyshev A.V.,
RA Leather S., Moule S., Oyston P.C.F., Quail M.A., Rutherford K.M.,
RA Simmonds M., Skelton J., Stevens K., Whitehead S., Barrall B.G.;
RA "Genome sequence of Yersinia pestis, the causative agent of plague.";
RL Nature 413:523-527(2001).
[1]
RN NUCLEOTIDE SEQUENCE.
RC STRAIN=KIMS / Biovar Mediaevalis;
RX MEDLINE=22137863; PubMed=12142430;
DOI=10.1128/JB.184.16.4601-4611.2002;
RA Deng W., Burland V., Plunkett G. III, Boutin A., Mayhew G.F., Liss P.,
RA Perna N.T., Rose D.J., Mau B., Zhou S., Schwartz D.C.,
RA Fetherston J.D., Lindler L.E., Brubaker R.R., Plano G.V.,
RA Straley S.C., McDonough K.A., Nilles M.L., Watson J.S., Blattner F.R.,
RA Perry R.D.;
RL "Genome sequence of Yersinia pestis KIM.";
RT J. Bacteriol. 184:4601-4611(2002).
DR EMBL: AJ414142; CAC89323.1; -; Genomic_DNA.
DR EMBL: AE013974; AAM87255.1; -; Genomic_DNA.
DR PIR: AH0057; AH0057.
DR GO: GO:0016020; C:membrane; IEA.
DR InterPro: IPR000791; Grp1_Fun34_Yaah.
DR Pfam: PF01184; Grp1_Fun34_Yaah; 1.
DR ProDom: PD010188; Grp1_Fun34_Yaah; 1.
DR Complete proteome; Hypothetical protein.
KW SEQUENCE 203 AA; 21661 MW; 2028286691CD661 CRC64;

Query Match 62.2%; Score 46; DB 2; Length 203;
Best Local Similarity 57.1%; Pred. No. 6.9;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14
||:||||:
DB 15 MGFGMTTVLLNLHN 28

RESULT 15
Q66ET1_YERPS
ID Q66ET1_YERPS PRELIMINARY; PRT; 203 AA.
AC Q66ET1;
DT 25-OCT-2004 (T-EMBLrel. 28, Created)
DT 25-OCT-2004 (T-EMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (T-EMBLrel. 28, Last annotation update)
DE Putative regulator; integral membrane protein.
GN Name=yaah; OrderedLocusNames=YPTB0610;
OS Yersinia pseudotuberculosis.
OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
OC Enterobacteriaceae; Yersinia.
OX NCBI_TaxID=633;
RN NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
[1]
RC STRAIN=IF32953 / Serotype 1;
RX PubMed=15358858; DOI=10.1073/pnas.0404012101;
RA Chain P.S.G., Carniel E., Larimer F.W., Lamerdin J., Stoutland P.O.,

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RA Regala W.M., Georgescu A.M., Vergez L.M., Land M.L., Motin V.L.,
RA Brubaker R.R., Fowler J., Hinnebusch J., Marceau M., Medigue C.,
RA Simonet M., Chenal-Francois V., Souza B., Dacheux D., Elliott J.M.,
RA Derbise A., Hauser L.J., Garcia E.;
RT "Insights into the evolution of Yersinia pestis through whole-genome
RT comparison with Yersinia pseudotuberculosis.";
RL Proc. Natl. Acad. Sci. U.S.A. 101:13826-13831(2004).
DR EMBL; BX936398; C:membrane; IEA.
DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR000791; Grp1_Fun34_YaaH.
DR Pfam; PF01184; Grp1_Fun34_YaaH; 1.
DR ProDom; PD010188; Grp1_Fun34_YaaH; 1.
DR Complete proteome.
SQ SEQUENCE 203 AA; 21644 MW; A21F2175B2ABCA0A CRC64;

Query Match 62.2%; Score 46; DB 2; Length 203;
Best Local Similarity 57.1%; Pred. No. 6.9;
Matches 8; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLNH 14
Db 15 MGFGMTTLLNLN 28
|||:|||||
|||:|||||

RESULT 16
Q5CQ75_CRYPV PRELIMINARY; PRT; 851 AA.
AC Q5CQ75;
DT 10-MAY-2005 (TrEMBLrel. 30, Created)
DT 10-MAY-2005 (TrEMBLrel. 30, Last sequence update)
DT 10-MAY-2005 (TrEMBLrel. 30, Last annotation update)
DE YprA. Lhr1/Ski2 family RNA Sfil helicase (Fragment).
GN ORFNames=cgd5_3870;
OS Cryptosporidium parvum.
OC Eukaryota; Alveolata; Apicomplexa; Coccidia; Eimeriida;
OC Cryptosporidiidae; Cryptosporidium.
OC NCBI_TaxID=5807;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=Iowa type II;
RX PubMed=15044751; DOI=10.1126/science.1094786;
RA Abrahamson M.S., Templeton T.J., Enomoto S., Abrahamte J.E., Zhu G.,
RA Lanceto C.A., Deng M., Liu C., Widmer G., Tzipori S., Buck G.A., Xu P.,
RA Bankier A.T., Dear P.H., Konfortov B.A., Spriggs H.F., Iyer L.,
RA Anantharaman V., Aravind L., Kapur V.;
RT "Complete genome sequence of the apicomplexan, Cryptosporidium
RT parvum.";
RL Science 304:441-445(2004).
DR EMBL; AAEE0100010; EAK87599.1; -; Genomic_DNA.
DR GO; GO:0005524; F:ATP binding; IEA.
DR GO; GO:0008026; F:ATP-dependent helicase activity; IEA.
DR GO; GO:0016787; F:hydrolase activity; IEA.
DR GO; GO:0003676; F:nucleic acid binding; IEA.
DR InterPro; IPR001410; DEAD
DR InterPro; IPR011545; DEAD/DEAH_N.
DR InterPro; IPR001650; Helicase_C.
DR Pfam; PF00270; DEAD; 1.
DR Pfam; PF00271; Helicase_C; 1.
DR SMART; SM00487; DEXDC; 1.
DR SMART; SM00490; HELIC_C; 1.
DR ATP-binding; Helicase; Hydrolase.
FT NON TER
SQ SEQUENCE 851 AA; 98508 MW; 1891EC62ADCF9D28 CRC64;

Query Match 62.2%; Score 46; DB 2; Length 851;
Best Local Similarity 90.0%; Pred. No. 28;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5 MALKSKINLNH 14
Db 546 MALKKINLNH 555
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RESULT 17
Q72786_DESVH PRELIMINARY; PRT; 183 AA.
AC Q72786;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Grp1/Fun34/YaaH family protein.
DE OrderedLocuNames=DVU2789;
GN Desulfobrio vulgaris (strain Hildenborough / ATCC 29579 / NCIMB
OS 8303).
OS Bacteria; Proteobacteria; Deltaproteobacteria; Desulfobirionales;
OC Desulfobirionaceae; Desulfobrio.
OC NCBI_TaxID=882;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RX PubMed=15077118; DOI=10.1038/nbt959;
RA Heidelberg J.F., Seshadri R., Haveman S.A., Hemme C.L., Paulsen I.T.,
RA Kolonay J.F., Eisen J.A., Ward N.L., Methe B.A., Brinkac L.M.,
RA Daugherty S.C., DeBoy R.T., Dodson R.J., Durkin A.S., Madupu R.,
RA Nelson W.C., Sullivan S.A., Fouts D.E., Haft D.H., Selengut J.,
RA Peterson J.D., Daviden T.M., Zafar N., Zhou L., Radune D.,
RA Dimitrov G., Hance M., Tran K., Khouri H.M., Gill J., Utterback T.R.,
RA Feldblyum T.V., Wall J.D., Voordouw G., Fraser C.M.;
RT "The genome sequence of the anaerobic, sulfate-reducing bacterium
RT Desulfobrio vulgaris Hildenborough.";
RL Nat. Biotechnol. 22:554-559(2004).
DR EMBL; AE017318; AAS97261.1; -; Genomic_DNA.
DR TIGR; DVU2789; -
DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR000791; Grp1_Fun34_YaaH.
DR Pfam; PF01184; Grp1_Fun34_YaaH; 1.
DR ProDom; PD010188; Grp1_Fun34_YaaH; 1.
DR PROSITE; PS01114; GPR1_FUN34_YAAH; 1.
DR Complete proteome.
KW SEQUENCE 183 AA; 20134 MW; 82A9BDCDD18C4AA6 CRC64;

Query Match 59.5%; Score 44; DB 2; Length 183;
Best Local Similarity 50.0%; Pred. No. 14;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLNH 14
Db 14 MGFGMTTLLNLN 27
|||:|||||
|||:|||||

RESULT 18
Q6AK78_DESPS PRELIMINARY; PRT; 185 AA.
AC Q6AK78;
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DE Conserved hypothetical membrane protein.
GN OrderedLocuNames=DP2519;
OS Desulfotalea psychrophila.
OS Bacteria; Proteobacteria; Deltaproteobacteria; Desulfobacterales;
OC Desulfobulbaceae; Desulfotalea.
OC NCBI_TaxID=84980;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=LSV54 / DSM 12343;
RX PubMed=15305914; DOI=10.1111/j.1462-2920.2004.00665.x;
RA Rabus R., Ruepp A., Frickey T., Rattei T., Fartmann B., Stark M.,
RA Bauer M., Zibat A., Lombardot T., Becker I., Amann J., Gellner K.,
RA Teeling H., Leuschner W.D., Gloeckner F.-O., Lupas A.N., Amann R.,
RA Klenk H.-P.;
RT "The genome of Desulfotalea psychrophila, a sulfate-reducing bacterium
RT from permanently cold Arctic sediments.";
RL Environ. Microbiol. 6:887-902(2004).
DR EMBL; CR522870; CAG37248.1; -; Genomic_DNA.
DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR000791; Grp1_Fun34_YaaH.

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DR Pfam; PF01184; Gp1_Fun34_Yaah; 1.
DR ProDom; PD010188; Gp1_Fun34_Yaah; 1.
KW Complete proteome.
SQ SEQUENCE 185 AA; 20227 MW; 65AF87115A3B0560 CRC64;

Query Match          59.5%; Score 44; DB 2; Length 185;
Best Local Similarity 50.0%; Pred. No. 14;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Qy 1 MGYGMALSKINLHN 14
    ||:||:|
Db 15 MGFGMTTLLNIHN 28
    ||:||:|

RESULT 19
Q7P0P5_CHRVO PRELIMINARY; PRT; 186 AA.
AC Q7P0P5
DT 01-MAR-2004 (TRENBLrel. 26, Created)
DT 01-MAR-2004 (TRENBLrel. 26, Last sequence update)
DE Probable membrane protein.
GN OrderedLocusNames=CV0521;
OS Chromobacterium violaceum.
OC Bacteria; Proteobacteria; Betaproteobacteria; Neisseriales;
OC Neisseriaceae; Chromobacterium.
OX NCBI_TaxID=536;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=ATCC 12472 / DSM 30191;
RX MEDLINE=22882980; PubMed=14500782; DOI=10.1073/pnas.1832124100;
RA Vaeconcelos A.T.R., de Almeida D.F., Hungria M., Guimaraes C.T.,
RA Antonio R.V., Almeida F.C., de Almeida L.G.P., de Almeida R.,
RA Alves-Gomes J.A., Andrade E.M., Araripe J.J., de Araujo M.F.F.,
RA Astolfi-Filho S., Azevedo V., Baptista A.J., Bataus L.A.M.,
RA Batista J.S., Belo A., Van den Berg C., Bogo M., Bonatto S.,
RA Bordignon J., Brígido M.M., Brito C.A., Brocchi M., Burley H.A.,
RA Camargo A.A., Cardoso D.D.P., Carneiro N.P., Carraro D.M.,
RA Carvalho C.M.B., Cascardo J.C.M., Cavada B.S., Chuiere L.M.O.,
RA Creczynski-Pasa T.B., Cunha-Junior N.C., Fagundes N., Falcao C.L.,
RA Fantinatti F., Farias I.P., Felipe M.S.S., Ferrari L.P., Ferro J.A.,
RA Ferro M.I.T., Franco G.R., Freitas N.S.A., Furlan L.R.,
RA Gazzinelli R.T., Gomes E.A., Goncalves P.R., Grangeiro T.B.,
RA Grattapaglia D., Grisard E.C., Hanna E.S., Jardim S.N., Laurino J.,
RA Leoi L.C.T., Lima L.F.A., Loureiro M.F., Lyra M.C.C.P.,
RA Madeira H.M.F., Manfio G.P., Maranhao A.Q., Martins W.S.,
RA di Mauro S.M.Z., de Medeiros S.R.B., Meissner R.V., Moreira M.A.M.,
RA Nascimento F.F., Nicolas M.F., Oliveira J.G., Oliveira S.C.,
RA Paixao R.F.C., Parente J.A., Pedrosa F.O., Pena S.D.J., Pereira J.O.,
RA Pereira M., Pinto L.S.R.C., Pinto L.S., Porto J.I.R., Potrich D.P.,
RA Ramalho-Neto C.E., Reis A.M.M., Rigo L.U., Rondinelli E.,
RA Santos E.B.P., Santos F.R., Schneider M.P.C., Seanez H.N.,
RA Silva A.M.R., da Silva A.L.C., Silva D.W., Silva R., Simoes I.C.,
RA Simon D., Soares C.M.A., Soares R.B.A., Souza E.M., Souza K.R.L.,
RA Souza R.C., Steffens M.B.R., Steindel M., Teixeira S.R., Urmenyi T.,
RA Vettore A., Wassen R., Zaha A., Simpson A.J.G.;
RT "The complete genome sequence of Chromobacterium violaceum reveals
RT remarkable and exploitable bacterial adaptability.";
RL Proc. Natl. Acad. Sci. U.S.A. 100:11660-11665(2003).
DR EMBL; AE016911; AAQ58198.1; -; Genomic_DNA.
DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR000791; Gp1_Fun34_Yaah.
DR Pfam; PF01184; Gp1_Fun34_Yaah; 1.
DR ProDom; PD010188; Gp1_Fun34_Yaah; 1.
DR PROSITE; PS01114; Gp1_FUN34_YAAH; 1.
KW Complete proteome.
SQ SEQUENCE 186 AA; 20086 MW; 177AB5FADF92D56 CRC64;

Query Match          59.5%; Score 44; DB 2; Length 186;
Best Local Similarity 50.0%; Pred. No. 15;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Qy 1 MGYGMALSKINLHN 14
    ||:||:|
Db 15 MGFGMTTLLNIHN 28
    ||:||:|

RESULT 20
Q8EBD7_SHEON PRELIMINARY; PRT; 189 AA.
AC Q8EBD7
DT 01-MAR-2003 (TRENBLrel. 23, Created)
DT 01-MAR-2003 (TRENBLrel. 23, Last sequence update)
DT 01-OCT-2003 (TRENBLrel. 25, Last annotation update)
DE Gp1/fun34/Yaah family protein.
GN OrderedLocusNames=SO3588;
OS Shewanella oneidensis.
OC Bacteria; Proteobacteria; Gammaproteobacteria; Alteromonadales;
OC Shewanellaceae; Shewanella.
OX NCBI_TaxID=70863;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=NR-1; PubMed=12368813; DOI=10.1038/nbt749;
RX MEDLINE=22297686; PubMed=12368813; DOI=10.1038/nbt749;
RA Heidelberg J.F., Paulsen I.T., Nelson K.E., Gaidos E.J., Nelson W.C.,
RA Read T.D., Eisen J.A., Seshadri R., Ward N.B., Methe B.A.,
RA Clayton R.A., Meyer T., Tsaplin A., Scott J., Beanan M.J.,
RA Brinkac L.M., Daugherty S.C., DeBoy R.T., Dodson R.J., Durkin A.S.,
RA Haft D.H., Kolonay J.F., Madupu R., Peterson J.D., Umayam L.A.,
RA White O., Wolf K.J., Lee C., Vamathevan J.J., Weidman J.F., Impraim M.,
RA Lee K., Berry K.J., Lee C., Mueller J., Khouri H.M., Gill J.,
RA Utterback T.R., McDonald L.A., Feldblyum T.V., Smith H.O.,
RA Venter J.C., Neale K.H., Fraser C.M.;
RT "Genome sequence of the dissimilatory metal ion-reducing bacterium
RT Shewanella oneidensis.";
RL Nat. Biotechnol. 20:1118-1123(2002).
DR EMBL; AS015795; AAN56575.1; -; Genomic_DNA.
DR TIGR; SO3588; -;
DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR000791; Gp1_Fun34_Yaah.
DR Pfam; PF01184; Gp1_Fun34_Yaah; 1.
DR PROSITE; PS010188; Gp1_Fun34_Yaah; 1.
DR PROSITE; PS01114; Gp1_FUN34_YAAH; 1.
KW Complete proteome.
SQ SEQUENCE 189 AA; 20388 MW; 25E6A0986AF2BFCD CRC64;

Query Match          59.5%; Score 44; DB 2; Length 189;
Best Local Similarity 50.0%; Pred. No. 15;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Qy 1 MGYGMALSKINLHN 14
    ||:||:|
Db 14 MGFGMTTLLNIHN 27
    ||:||:|

RESULT 21
Q87S04_VIBPA PRELIMINARY; PRT; 196 AA.
AC Q87S04
DT 01-JUN-2003 (TRENBLrel. 24, Created)
DT 01-JUN-2003 (TRENBLrel. 24, Last sequence update)
DT 01-OCT-2003 (TRENBLrel. 25, Last annotation update)
DE Hypothetical protein VP0620.
GN OrderedLocusNames=VF0620;
OS Vibrio parahaemolyticus.
OC Bacteria; Proteobacteria; Gammaproteobacteria; Vibrionales;
OC Vibrionaceae; Vibrio.
OX NCBI_TaxID=670;
RN [1]
RP NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RC STRAIN=RIMD 2210633 / Serotype O3:K6;
RX MEDLINE=22508454; PubMed=12620739; DOI=10.1016/S0140-6736(03)12659-1;
RA Makino K., Oshima K., Kurokawa K., Yokoyama K., Uda T., Tagomori K.,
RA Iijima Y., Najima M., Nakano M., Yamashita A., Kubota Y., Kimura S.,
RA Yasunaga T., Honda T., Shinagawa H., Hattori M., Iida T.;
RT "Genome sequence of Vibrio parahaemolyticus: a pathogenic mechanism
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RT distinct from that of V. cholerae.";
RL Lancel 361.743-749(2003).
DR EMBL; BA000031; BAC58883.1; -; Genomic_DNA.
DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR000791; Grp1_Fun34_Yaah.
DR Pfam; PF01184; Grp1_Fun34_Yaah; 1.
DR ProDom; PD010188; Grp1_Fun34_Yaah; 1.
DR PROSITE; PS01114; GPRI_FUN34_YAAH; 1.
KW Complete proteome; Hypothetical protein.
SQ SEQUENCE 196 AA; 20930 MW; 8FECFC8E367DDA11 CRC64;

Query Match 59.5%; Score 44; DB 2; Length 196;
Best Local Similarity 50.0%; Pred. No. 15;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14
DB 14 MGFGMTTILLNIHN 27

RESULT 22
Q6LPH7_PROPR PRELIMINARY; PRT; 197 AA.
AC Q6LPH7;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Putative membrane protein.
GN Name=STY0009; OrderedLocusNames=PBPR2415;
OS Photobacterium profundum (Photobacterium sp. (strain SS9)).
OC Bacteria; Proteobacteria; Gammaproteobacteria; Vibrionales;
OC Vibrionaceae; Photobacterium.
OC NCBI_TaxID=74109;
RN [1]
RP NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RX PubMed=15746425; DOI=10.1126/science.1103341;
RA Vezzi A., Campanaro S., D'Angelo M., Simonato F., Vitulo N.,
RA Lauro F.M., Cestaro A., Malacrida G., Simionati B., Cannata N.,
RA Romualdi C., Bartlett D.H., Valle G.;
RT "Life at depth: Photobacterium profundum genome sequence and
RT expression analysis.";
RL Science 307:1459-1461(2005).
DR EMBL; CH378671; CAG20799.1; -; Genomic_DNA.
DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR000791; Grp1_Fun34_Yaah.
DR Pfam; PF01184; Grp1_Fun34_Yaah; 1.
DR ProDom; PD010188; Grp1_Fun34_Yaah; 1.
DR PROSITE; PS01114; GPRI_FUN34_YAAH; 1.
KW Complete proteome.
SQ SEQUENCE 197 AA; 21133 MW; 688D1251A006A8F8 CRC64;

Query Match 59.5%; Score 44; DB 2; Length 197;
Best Local Similarity 50.0%; Pred. No. 15;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14
DB 14 MGFGMTTILLNIHN 27

RESULT 23
Q8DF09_VIBVU PRELIMINARY; PRT; 197 AA.
AC Q8DF09;
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Predicted membrane protein.
GN OrderedLocusNames=VV10416;
OS Vibrio vulnificus.
OC Bacteria; Proteobacteria; Gammaproteobacteria; Vibrionales;
OC Vibrionaceae; Vibrio.
OC NCBI_TaxID=672;

us-10-769-514-17.rup

[1]
RN NUCLEOTIDE SEQUENCE.
RC STRAIN=CMCP6;
RA Rhee J.H., Kim S.Y., Chung S.S., Kim J.J., Moon Y.H., Jeong H.,
RA Choy H.E.;
RT "Complete genome sequence of Vibrio vulnificus CMCP6.";
RL Submitted (DEC-2002) to the EMBL/GenBank/DBSJ databases.
DR EMBL; AE016798; AAO08939.1; -; Genomic_DNA.
DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR000791; Grp1_Fun34_Yaah.
DR Pfam; PF01184; Grp1_Fun34_Yaah; 1.
DR ProDom; PD010188; Grp1_Fun34_Yaah; 1.
DR PROSITE; PS01114; GPRI_FUN34_YAAH; 1.
KW Complete proteome.
SQ SEQUENCE 197 AA; 21066 MW; E1781C8FF21B08B9 CRC64;

Query Match 59.5%; Score 44; DB 2; Length 197;
Best Local Similarity 50.0%; Pred. No. 15;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14
DB 14 MGFGMTTILLNIHN 27

RESULT 24
Q9KTW0_VIBCH PRELIMINARY; PRT; 197 AA.
AC Q9KTW0;
DT 01-OCT-2000 (TrEMBLrel. 15, Created)
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Hypothetical protein VC0770.
GN OrderedLocusNames=VC0770;
OS Vibrio cholerae.
OC Bacteria; Proteobacteria; Gammaproteobacteria; Vibrionales;
OC Vibrionaceae; Vibrio.
OC NCBI_TaxID=666;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=EI Tor N16961 / Serotype O1;
RX MEDLINE=20406833; PubMed=10952301; DOI=10.1038/35020000;
RA Heidelberg J.F., Eisen J.A., Nelson W.C., Clayton R.A., Gwin M.L.,
RA Dodson R.J., Haft D.H., Hickey E.K., Peterson J.D., Umayam L.A.,
RA Gill S.R., Nelson K.E., Read T.D., Tettelin H., Richardson D.L.,
RA Ermolaeva M.D., Vamathevan J.J., Bass S., Qin H., Dragoi I.,
RA Sellers P., McDonald L.A., Utterback T.R., Fleischmann R.D.,
RA Nierman W.C., White O., Salzberg S.L., Smith H.O., Colwell R.R.,
RA Mekalanos J.J., Venter J.C., Fraser C.M.;
RT "DNA sequence of both chromosomes of the cholera pathogen Vibrio
RT cholerae.";
RL Nature 406:477-483(2000).
DR EMBL; AE004162; AAF93935.1; -; Genomic_DNA.
DR FIR; F82282; F82282.
DR TIGR; VC0770; -.
DR GO; GO:0016020; C:membrane; IEA.
DR InterPro; IPR000791; Grp1_Fun34_Yaah.
DR Pfam; PF01184; Grp1_Fun34_Yaah; 1.
DR ProDom; PD010188; Grp1_Fun34_Yaah; 1.
DR PROSITE; PS01114; GPRI_FUN34_YAAH; 1.
KW Complete proteome; Hypothetical protein.
SQ SEQUENCE 197 AA; 21120 MW; 5CD361817EB954E1 CRC64;

Query Match 59.5%; Score 44; DB 2; Length 197;
Best Local Similarity 50.0%; Pred. No. 15;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14
DB 14 MGFGMTTILLNIHN 27

RESULT 25

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```
Q7MND9_VIBVY
ID Q7MND9_VIBVY PRELIMINARY; PRT; 197 AA.
AC
DT 01-MAR-2004 (TrEMBLrel. 26, Created)
DT 01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Predicted membrane protein.
GN OrderedLocuNames=V00779;
OS Bacteria; Proteobacteria; Gammaproteobacteria; Vibrionales;
OC Vibrionaceae; Vibrio.
OX NCBI_TaxID=196600;
RN NUCLEOTIDE SEQUENCE.
RP PubMed=1465695; DOI=10.1101/gr.129503;
RA Chao C.-Y., Wu K.-M., Chang Y.-C., Chang C.-H., Tsai H.-C.,
RA Liao T.-L., Liu Y.-M., Chen H.-J., Shen A.B.-T., Li J.-C., Su T.-L.,
RA Shao C.-P., Lee C.-T., Hor L.-I., Tsai S.-F.;
RT "Comparative genome analysis of Vibrio vulnificus, a marine
RT pathogen."
RL Genome Res. 13:2577-2587(2003).
DR EMBL: BA000037; BAC93542.1; -, Genomic_DNA.
DR GO: GO:0016020; C:membrane; IEA.
DR InterPro: IPR000791; Grp1_Fun34_Yaah.
DR Pfam: PF01184; Grp1_Fun34_Yaah; 1.
DR ProDom: PD010188; Grp1_Fun34_Yaah; 1.
DR PROSITE: PS01114; Grp1_Fun34_YAaH; 1.
KW Complete proteome.
SQ SEQUENCE 197 AA; 21066 MW; E1781C8FF21B08B9 CRC64;

Query Match 59.5%; Score 44; DB 2; Length 197;
Best Local Similarity 50.0%; Pred. No. 15;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14
   |||:|:|:|
DB 14 MGFGMTTLLNIHN 27

RESULT 26
ID Q8PYF9_METWA PRELIMINARY; PRT; 200 AA.
AC Q8PYF9;
DT 01-OCT-2002 (TrEMBLrel. 22, Created)
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Transcriptional regulator.
GN OrderedLocuNames=MW0903;
OS Methanosarcina mazei (Methanosarcina frisia).
OC Archaea; Euryarchaeota; Methanomicrobia; Methanosarcinales;
OX NCBI_TaxID=2209;
RN NUCLEOTIDE SEQUENCE.
RP STRAIN=Goel / Go1 / ATCC BAA-199 / DSM 3647 / OCM 88;
RX MEDLINE=22120827; PubMed=12125824;
RA Deppenmeier U., Johann A., Hartsch T., Merkl R., Schmitz R.A.,
RA Martinez-Arias R., Henne A., Wieser A., Baeumer S., Jacobi C.,
RA Brueggemann H., Lienard T., Christmann A., Boemcke M., Steckel S.,
RA Bhattacharyya A., Lykidis A., Overbeek R., Klenk H.-P., Gunsalus R.P.,
RA Fritz H.-J., Gottschalk G.;
RT "The genome of Methanosarcina mazei: evidence for lateral gene
RT transfer between Bacteria and Archaea."
RL J. Mol. Microbiol. Biotechnol. 4:453-461(2002).
DR EMBL: AE013316; BAM30599.1; -, Genomic_DNA.
DR GO: GO:0016020; C:membrane; IEA.
DR InterPro: IPR000791; Grp1_Fun34_Yaah.
DR Pfam: PF01184; Grp1_Fun34_Yaah; 1.
DR ProDom: PD010188; Grp1_Fun34_Yaah; 1.
DR PROSITE: PS01114; Grp1_Fun34_YAaH; 1.
KW Complete proteome.
SQ SEQUENCE 200 AA; 21621 MW; 6F8AB042D9B70FF0 CRC64;

Q7MND9_VIBVY
Query Match 59.5%; Score 44; DB 2; Length 200;
Best Local Similarity 50.0%; Pred. No. 16;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14
   |||:|:|:|
DB 29 MGFGMTTLLNIHN 42

RESULT 27
ID Q8TIV1_METAC PRELIMINARY; PRT; 201 AA.
AC Q8TIV1;
DT 01-JUN-2002 (TrEMBLrel. 21, Created)
DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Fun34 related protein.
GN OrderedLocuNames=MA4008;
OS Methanosarcina acetivorans;
OC Archaea; Euryarchaeota; Methanomicrobia; Methanosarcinales;
OX NCBI_TaxID=2214;
RN NUCLEOTIDE SEQUENCE.
RP STRAIN=C2A / ATCC 35395 / DSM 2834;
RX MEDLINE=21929760; PubMed=11922238; DOI=10.1101/gr.223902;
RA Galegan J.E., Nuebaum C., Roy A., Endrizzi M.G., Macdonald P.,
RA Fitzhugh W., Calvo S., Engels R., Smirnov S., Atnoor D., Brown A.,
RA Allen N., Naylor J., Stange-Thomann N., DeArelano K., Johnson R.,
RA Linton L., McEwan P., McKernan K., Ialamas J., Fitzell A., Ye W.,
RA Zimmer A., Barber R.D., Cann I., Graham D.E., Grahame D.A., Gues A.M.,
RA Hedderich R., Ingram-Smith C., Kuettnier H.C., Krzycki J.A.,
RA Leigh J.A., Li W., Liu J., Mukhopadhyay B., Reeve J.N., Smith K.,
RA Springer T.A., Unayam L.A., White O., White R.H., de Macario E.C.,
RA Ferry J.G., Jarrell K.F., Jing H., Macario A.J.L., Paulsen I.T.,
RA Pritchett M., Sowers K.R., Swanson R.V., Zinder S.H., Lander E.,
RA Metcalf W.W., Birren B.;
RT "The genome of Methanosarcina acetivorans reveals extensive metabolic
RT and physiological diversity."
RL Genome Res. 12:532-542(2002).
DR EMBL: AE011113; AAM07358.1; -, Genomic_DNA.
DR GO: GO:0016020; C:membrane; IEA.
DR InterPro: IPR000791; Grp1_Fun34_Yaah.
DR Pfam: PF01184; Grp1_Fun34_Yaah; 1.
DR ProDom: PD010188; Grp1_Fun34_Yaah; 1.
DR PROSITE: PS01114; Grp1_Fun34_YAaH; 1.
KW Complete proteome.
SQ SEQUENCE 201 AA; 21734 MW; BF6013C034C0DAFE CRC64;

Q7MND9_VIBVY
Query Match 59.5%; Score 44; DB 2; Length 201;
Best Local Similarity 50.0%; Pred. No. 16;
Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLHN 14
   |||:|:|:|
DB 29 MGFGMTTLLNIHN 42

RESULT 28
ID Q4UYJ0_XANCP PRELIMINARY; PRT; 343 AA.
AC Q4UYJ0;
DT 13-SEP-2005 (TrEMBLrel. 31, Created)
DT 13-SEP-2005 (TrEMBLrel. 31, Last sequence update)
DT 13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
DE Transcriptional regulator.
GN OSFNames=XC 0808;
OS Xanthomonas campestris pv. campestris str. 8004.
OC Bacteria; Proteobacteria; Gammaproteobacteria; Xanthomonadales;
OX Xanthomonadaceae; Xanthomonas.
OX NCBI_TaxID=314565;
RN NUCLEOTIDE SEQUENCE.
RP
```

QY		2 GYGMAISKLNH 13    :	
DB		108 GYSMLLSKLNHR 119     :	
RESULT 30			
Q6MST2 MYCMS			
ID	Q6MST2 MYCMS PRELIMINARY;	PRT; 362 AA.	
AC	G6MST2;		
DT	05-JUL-2004 (TrEMBLrel. 27, Created)		
DT	05-JUL-2004 (TrEMBLrel. 27, Last sequence update)		
DT	05-JUL-2004 (TrEMBLrel. 27, Last annotation update)		
DE	Probable nicotinic phosphoribosyltransferase (EC 2.4.2.11).		
GN	Name=pncB; OrderedLocusNames=MSC_0687;		
DN	Mycoplasma mycoides [subsp. mycoides SC].		
OC	Bacteria; Firmicutes; Mollicutes; Mycoplasmataceae; Mycoplasma.		
OX	NCBI_TaxID=44101;		
RN	[1]		
RP	NUCLEOTIDE SEQUENCE.		
RC	STRAIN=PG1;		
RC	PubMed=14762060; DOI=10.1101/gr.1673304;		
RA	Westberg J., Persson A., Holmberg A., Gosemann A., Lundeberg J.,		
RA	Johansson K.-E., Pettersson B., Uhlen M.;		
RT	"The genome sequence of Mycoplasma mycoides subsp. mycoides SC type strain PG1, the causative agent of contagious bovine pleuropneumonia (CBPP).";		
RL	Genome Res. 14:221-227(2004) .		
DR	EMBL; BX842644; CAE77306.1; -; Genomic DNA.		
GO	GO; GO:0004516; F:nicotinate phosphoribosyltransferase activity; IEA;		
KW	Complete proteome.		
SQ	SEQUENCE 362 AA; 41160 MW; 8121BF091281DFB9 CRC64;		
Query Match 59.5%; Score 44; DB 2; Length 362; Best Local Similarity 66.7%; Pred. No. 28; Matches 8; Conservative 2; Mismatches 2; Indels 0; Gaps			
QY	2 GYGMAISKLNH 13    :		
DB	321 GVGSALAKINH 332    :		
RESULT 31			
Q4HG6L8_9DEIO			
ID	Q4HG6L8_9DEIO PRELIMINARY;	PRT; 501 AA.	
AC	Q4HG6L8;		
DT	13-SEP-2005 (TrEMBLrel. 31, Created)		
DT	13-SEP-2005 (TrEMBLrel. 31, Last sequence update)		
DT	13-SEP-2005 (TrEMBLrel. 31, Last annotation update)		
DE	Similar to metal-dependent hydrolase with the TIM-barrel fold.		
GN	ORFNames=dgeODRAFT_0101;		
OC	Deinococcus geothermalis DSM 11300.		
OC	Bacteria; Deinococcus-Thermus; Deinococci; Deinococcaceae;		
OX	NCBI_TaxID=319795;		
RN	[1]		
RP	NUCLEOTIDE SEQUENCE.		
RC	STRAIN=DSM 11300;		
RG	US DOE Joint Genome Institute (JGI-PGF);		
RA	Copeland A., Lucas S., Lapidus A., Barry K., Detter C., Glavina T.,		
RA	Hannon N., Israni S., Pitluck S., Richardson P.;		
FT	"Sequencing of the draft genome assembly of Deinococcus geothermalis DSM 11300.";		
RT	Submitted (MAY-2005) to the EMBL/GenBank/DBJ databases.		
RL	[2]		
RN	RP NUCLEOTIDE SEQUENCE.		
RC	STRAIN=DSM 11300;		
RG	US DOE Joint Genome Institute (JGI-ORNL);		
RA	Larimer F., Land M.;		
RT	"Annotation of the draft genome assembly of Deinococcus geothermalis DSM 11300.";		
RT	Submitted (JUN-2005) to the EMBL/GenBank/DBJ databases.		
CC	-!- CAUTION: The sequence shown here is derived from an		
CC	EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is		

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CC preliminary data.
DR EMBL; AAHE01000013; BA81904.1; -, Genomic_DNA.
KW Hydrolase.
SQ SEQUENCE 501 AA; 53099 MW; 13CFBB50B9CC64AB CRC64;

Query Match 59.5%; Score 44; DB 2; Length 501;
Best Local Similarity 53.8%; Pred. No. 39;
Matches 7; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1 MGYGMAISKINLH 13
DB 72 VAYGSLSLNHLH 84

RESULT 32
QARYL2_TETNG PRELIMINARY; PRT; 694 AA.
AC QARYL2_TETNG PRELIMINARY; PRT; 694 AA.
DT 13-SEP-2005 (TREMBlrel. 31, Created)
DT 13-SEP-2005 (TREMBlrel. 31, Last sequence update)
DT 13-SEP-2005 (TREMBlrel. 31, Last annotation update)
DE Chromosome 3 SCAFI4975, whole genome shotgun sequence.
DE (Fragment).
GN ORFNames=GSTENG0026906001;
OS Tetraodon nigroviridis (Green puffer).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
OC Acanthomorpha; Acanthopterygii; Percomorphi; Tetraodontiformes;
OC Tetraodontidae; Tetraodontidae; Tetraodon.
OX NCBI_TaxID=99883;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RA Jaillon O., Aury J.M., Brunet P., Petit J.L., Stange-Thomann N.,
RA Mauceli E., Bouneau L., Fischer C., Ozouf-Costaz C., Bernot A.,
RA Nicaud S., Jaffe D., Fisher S., Luthalla G., Dossat C., Segurens B.,
RA Desliva C., Salanoubat M., Levy M., Boudet N., Castellano S.,
RA Anthonard V., Juhin C., Castellani V., Katinka M., Vacherie B.,
RA Biemont C., Skallii Z., Cattolico L., Poulain J., De Berardinis V.,
RA Cruaud C., Duprat S., Brottier P., Coutanceau J.P., Gouzy J.,
RA Parra G., Lardier G., Chappie C., McKernan K.J., McEwan P., Bosak S.,
RA Kellis M., Volff J.N., Guigo R., Zody M.C., Mesirov J.,
RA Lindblad-Toh K., Birren B., Nusbaum C., Kahn D., Robinson-Rechavi M.,
RA Laudet V., Schachter V., Quetier F., Saurin W., Scarpelli C.,
RA Winkler P., Lander E.S., Weissbach J., Roest Crolius H.;
RT "Genome duplication in the teleost fish Tetraodon nigroviridis reveals
RT the early vertebrate proto-karyotype.";
RL Nature 431:946-957(2004).
RN [2]
RP NUCLEOTIDE SEQUENCE.
RG Genoscope; Whitehead Institute Centre for Genome Research;
RL Submitted (FEB-2004) to the EMBL/GenBank/DBJ databases.
CC -!- CAUTION: The sequence shown here is derived from an
CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is
CC preliminary data.
DR EMBL; CAAE01014975; CAG06520.1; -, Genomic_DNA.
FT NON_TER 1 694
FT NON_TER 694 694
SQ SEQUENCE 694 AA; 77492 MW; FDBB74F7D7F17FE7 CRC64;

Query Match 59.5%; Score 44; DB 2; Length 694;
Best Local Similarity 72.7%; Pred. No. 54;
Matches 8; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 4 GMALSKINLHN 14
DB 496 GISLSKSLHN 506

RESULT 33
Q899T2_CLOTE PRELIMINARY; PRT; 887 AA.
ID Q899T2_CLOTE PRELIMINARY; PRT; 887 AA.
AC Q899T2;
DT 01-JUN-2003 (TREMBlrel. 24, Created)

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DT 01-JUN-2003 (TREMBlrel. 24, Last sequence update)
DT 01-OCT-2003 (TREMBlrel. 25, Last annotation update)
DE Conserved membrane protein.
GN OrderedLocusNames=CTC000086;
OS Clostridium tetani.
OC Bacteria; Firmicutes; Clostridia; Clostridiales; Clostridiaceae;
OC Clostridium.
OX NCBI_TaxID=1513;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=Massachusetts / E88;
RX MEDLINE=22457253; PubMed=12552129; DOI=10.1073/pnas.0335853100;
RA Brueggemann H., Baeumer S., Fricke W.F., Wierse A., Liesegang H.,
RA Decker I., Herzberg C., Martinez-Arias R., Merkl R., Henne A.,
RA Gottschalk G.;
RT "The genome sequence of Clostridium tetani, the causative agent of
RT tetanus disease.";
RL Proc. Natl. Acad. Sci. U.S.A. 100:1316-1321(2003).
DR EMBL; AE015936; AA034739.1; -, Genomic_DNA.
GO; GO:0016021; C:integral to membrane; IEA.
DR InterPro; IPR005372; UPF0182.
DR Pfam; PF03699; UPF0182; 1.
RW Complete proteome.
SQ SEQUENCE 887 AA; 103741 MW; A92998D2EA3CEB7D CRC64;

Query Match 59.5%; Score 44; DB 2; Length 887;
Best Local Similarity 70.0%; Pred. No. 68;
Matches 7; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 2 GYGMAISKIN 11
DB 417 GYGMAISKVN 426

RESULT 34
RS24_AERPE STANDARD; PRT; 102 AA.
AC QSYCY0;
DT 30-MAY-2000 (Rel. 39, Created)
DT 30-MAY-2000 (Rel. 39, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE 30S ribosomal protein S24e.
GN Name=rs24e; OrderedLocusNames=APE1132;
OX Aeropyrum pernix.
OC Archaea; Crenarchaeota; Thermoprotei; Desulfurococcales;
OC Desulfurococccaceae; Aeropyrum.
OX NCBI_TaxID=56636;
RN [1]
RP NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RC STRAIN=K1;
MEDLINE=99310339; PubMed=10382966;
RA Kawarabayashi Y., Hino Y., Horikawa H., Yamazaki S., Haikawa Y.,
RA Jin-no K., Takahashi M., Sekine M., Baba S.-I., Ankai A., Kosugi H.,
RA Hosoyama A., Fukui S., Nagai Y., Nishijima K., Nakazawa H.,
RA Takamiya M., Masuda S., Funahashi T., Tanaka T., Kudo H. Y.,
RA Yamazaki J., Kishida N., Oguchi A., Aoki K.-I., Kubota K.,
RA Nakamura Y., Nomura N., Sako Y., Kikuchi H.;
RT "Complete genome sequence of an aerobic hyper-thermophilic
RT crenarchaeon, Aeropyrum pernix K1.";
RL DNA Res. 6:83-101(1999).
CC -!- SIMILARITY: Belongs to the ribosomal protein S24e family.
CC This Swiss-prot entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use as long as its content is in no way modified and this statement is not
CC removed.
CC -----
CC EMBL; BA000002; BA80117.1; ALT_INIT; Genomic_DNA.
DR HAMAP; MF_00545; -, 1.
DR InterPro; IPR001976; Ribosomal_S24E.
DR PANTHER; PTHR10496; Ribosomal_S24E; 1.
DR Pfam; PF01282; Ribosomal_S24e; 1.

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DR ProDom: PD006052; Ribosomal\_S24E; 1.  
 DR PROSITE; PS00529; RIBOSOMAL\_S24E; 1.  
 KW Complete proteome; Ribonucleoprotein; Ribosomal protein.  
 SQ SEQUENCE 102 AA; 11858 MW; DEAA205AAFEED8066 CRC64;

Query Match 58.1%; Score 43; DB 1; Length 102;  
 Best Local Similarity 58.3%; Pred. No. 12;  
 Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 2 GYGMALESKINLH 13  
 ||| ||| :  
 Db 60 GYGAGLSKVRVH 71

RESULT 35  
 Q4NOB2\_9DELTA PRELIMINARY; PRT; 214 AA.  
 AC Q4NOB2;  
 DT 13-SEP-2005 (TrEMBLrel. 31, Created)  
 DT 13-SEP-2005 (TrEMBLrel. 31, Last sequence update)  
 DT 13-SEP-2005 (TrEMBLrel. 31, Last annotation update)  
 DE GPR1/FUN34/yaah.  
 GN ORFNames=AdhDRAFT 0850;  
 OS Anaeromyxobacter dehalogenans 2CP-C.  
 OC Bacteria; Proteobacteria; Deltaproteobacteria; Myxococcales;  
 OC Cytophactereae; Myxococcaceae; Anaeromyxobacter.  
 OX NCBI\_TaxID=290397;  
 RN [1]  
 RP NUCLEOTIDE SEQUENCE.  
 RC STRAIN=2CP-C;  
 RG US DOE Joint Genome Institute (JGI-PGF);  
 RA Copeland A., Lucas S., Lapidus A., Barry K., Dettler C., Glavina T.,  
 RA Hammon N., Israni S., Picluc S., Richardson P.;  
 RT "Sequencing of the draft genome assembly of Anaeromyxobacter  
 RT dehalogenans 2CP-C.";  
 RL Submitted (MAY-2005) to the EMBL/GenBank/DBJ databases.  
 RN [2]  
 RP NUCLEOTIDE SEQUENCE.  
 RC STRAIN=2CP-C;  
 RG US DOE Joint Genome Institute (JGI-ORNL);  
 RA Larimer F., Land M.;  
 RT "Annotation of the draft genome assembly of Anaeromyxobacter  
 RT dehalogenans 2CP-C.";  
 RL Submitted (JUN-2005) to the EMBL/GenBank/DBJ databases.  
 CC -| CAUTION: The sequence shown here is derived from an  
 CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is  
 CC preliminary data.  
 DR EMBL; AAHD0100036; EAL77772.1; -; Genomic DNA.  
 SQ SEQUENCE 214 AA; 22798 MW; 9C3059FF2E5f7170 CRC64;

Query Match 58.1%; Score 43; DB 2; Length 214;  
 Best Local Similarity 50.0%; Pred. No. 25;  
 Matches 7; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLH 14  
 ||| :  
 Db 42 MGFGLTTVLNTHN 55

RESULT 36  
 Q4IKZ0\_GIBZE PRELIMINARY; PRT; 541 AA.  
 ID Q4IKZ0\_GIBZE  
 AC Q4IKZ0;  
 DT 13-SEP-2005 (TrEMBLrel. 31, Created)  
 DT 13-SEP-2005 (TrEMBLrel. 31, Last sequence update)  
 DT 13-SEP-2005 (TrEMBLrel. 31, Last annotation update)  
 DE Hypothetical protein.  
 GN ORFNames=FG02118.1;  
 OS Gibberella zeae PH-1.  
 OC Eukaryota; Fungi; Ascomycota; Pezizomycotina; Sordariomycetes;  
 OC Hypocreomycetidae; Nectriaceae; Gibberella.  
 OX NCBI\_TaxID=229533;  
 RN [1]

RP NUCLEOTIDE SEQUENCE.  
 RC STRAIN=PH-1;  
 RA Birren B., Nusbaum C., Abouelleil A., Allen N., Anderson S.,  
 RA Arachchi H.M., Barna N., Bastien V., Bloom T., Boguslavsky L.,  
 RA Bouckgaert B., Butler J., Calvo S.E., Camarata J., Chang J.,  
 RA Choepal Y., Collymore A., Cook A., Cooke P., Corum B., Dearellano K.,  
 RA Diaz J.S., Dodge S., Dooley K., Dorris L., Elkins T., Engels R.,  
 RA Erickson J., Faro S., Ferreira P., Fitzgerald M., Gage D., Galagan J.,  
 RA Gardyna S., Gnerre S., Graham L., Grand-Pierre N., Hafez N.,  
 RA Hagopian D., Hagos B., Hall J., Horton L., Hulme W., Iliev I.,  
 RA Jaffe D., Johnson R., Jones C., Kamal M., Kamat A., Karatas A.,  
 RA Kellis C., Landers T., Levine R., Lindblad-Toh K., Liu G., Liu A.,  
 RA Ma L.-J., Mabbitt R., MacLean C., Macdonald P., Major J., Manning J.,  
 RA Matthews C., Mauceli E., McCarthy M., Meldrim J., Meneus L.,  
 RA Mihova T., Mlenga V., Murphy T., Naylor J., Nguyen C., Nicol R.,  
 RA Nielsen C.B., Norbu C., O'Connor T., O'Donnell P., O'Neil D.,  
 RA Oliver J., Peterson K., Phukhang P., Pierre N., Purcell S.,  
 RA Rachupka A., Ramasamy U., Raymond C., Retta R., Rise C., Rogov P.,  
 RA Roman J., Schauer S., Schuback R., Seaman S., Severy P., Smirnov S.,  
 RA Smith C., Spencer B., Stange-Thomann N., Stojanovic N., Stubbs M.,  
 RA Talamas J., Tesfaye S., Theodore J., Topham K., Travers M.,  
 RA Vassiliou H., Venkataraman V.S., Viel R., Vo A., Wang S., Wilson B.,  
 RA Wu X., Wyman D., Young G., Zainoun J., Zembek L., Zimmer A., Zody M.,  
 RA Lander E.;  
 RT "Fusarium graminearum genome sequence.";  
 RL Submitted (FEB-2004) to the EMBL/GenBank/DBJ databases.  
 CC -| CAUTION: The sequence shown here is derived from an  
 CC EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is  
 CC preliminary data.  
 CC EMBL; AACM0100011; EAA69749.1; -; Genomic DNA.  
 KW Hypothetical protein.  
 SQ SEQUENCE 541 AA; 60552 MW; D9BEFE69CD5AFDBB CRC64;

Query Match 56.8%; Score 42; DB 2; Length 541;  
 Best Local Similarity 53.8%; Pred. No. 97;  
 Matches 7; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1 MGYGMALSKINLH 13  
 ||| :  
 Db 153 LGYGLLLSEGNVH 165

RESULT 37  
 SLIK1\_HUMAN  
 ID SLIK1\_HUMAN STANDARD; PRT; 696 AA.  
 AC Q96PX8; Q96SF9;  
 DT 05-JUL-2004 (Rel. 44, Created)  
 DT 05-JUL-2004 (Rel. 44, Last sequence update)  
 DT 13-SEP-2005 (Rel. 48, Last annotation update)  
 DE SLIT and NTRK-like protein 1 precursor.  
 GN Name=SLITRK1; Synonyms=KIAA1910, LRCC12; ORFNames=UNQ233/PRO266;  
 OS Homo sapiens (Human).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;  
 OC Homo.  
 OX NCBI\_TaxID=9606;  
 RN [1]  
 RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].  
 RC TISSUE=Brain;  
 RX MEDLINE=21456161; PubMed=11572484;  
 RX Nagase T., Kikuno R., Ohara O.;  
 RT "Prediction of the coding sequences of unidentified human genes. XXI.  
 RT The complete sequences of 60 new cDNA clones from brain which code for  
 RT large proteins.";  
 RL DNA Res. 8:179-187(2001).  
 RN [2]  
 RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].  
 RX MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;  
 RA Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D.T., Brush J.,  
 RA Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,  
 RA Eaton D., Foster J.S., Grimaldi C., Gu Q., Hass P.E., Heldens S.,  
 RA Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,  
 RA Lewis L., Liao D., Mark M.R., Robbie E., Sanchez C., Schoenfeld J.,



RA Seehagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,  
RA Vandenberg R.L., Watanabe K., Wisand D., Woods K., Xie M.-H.,  
RA Yansura D.G., Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A.D.,  
RA Wood W.I., Godowski P.J., Gray A.M.;  
RT "The secreted protein discovery initiative (SPDI), a large-scale  
RT effort to identify novel human secreted and transmembrane proteins: a  
RT bioinformatics assessment";  
RL Genome Res. 13:2265-2270(2003).  
RN (3)  
RP NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].  
RX PubMed=15057823; DOI=10.1038/nature02379;  
RA Dunham A., Matthews L.H., Burton J., Ashurst J.L., Howe K.L.,  
RA Ashcroft K.J., Beare D.M., Burford D.C., Hunt S.E.,  
RA Griffiths-Jones S., Jones M.C., Keenan S.J., Oliver K., Scott C.E.,  
RA Ainscough R., Almeida J.P., Ambrose K.D., Andrews D.T.,  
RA Ahevell R.I.S., Babbage A.K., Bagguley C.L., Bailey J., Bannerjee R.,  
RA Barlow K.F., Bates K., Beasley H., Bird C.P., Bray-Allen S.,  
RA Brown A.J., Brown J.V., Burrill W., Carder C., Carter N.P.,  
RA Chapman S.C., Clamp M.E., Clark S.Y., Clarke G., Clee C.M.,  
RA Clegg S.C., Cobley V., Collins J.E., Corby N., Coville G.J.,  
RA Deloukas P., Dhami P., Dunham I., Dunn M., Earthrowl M.E., French L.,  
RA Ellington A.G., Faulkner L., Frankish A.G., Gilson C.J., Ghori J.,  
RA Garner P., Garnett J., Gilbert J.G.R., Gilson C.J., Ghori J.,  
RA Grafham D.V., Gribble S.M., Griffiths C., Hall R.E., Hammond S.,  
RA Hunt J.L., Hart E.A., Heath P.D., Howden P.J., Huckle E.J.,  
RA Hunt P.J., Hunt A.R., Johnson C., Johnson D., Kay M., Kimberley A.M.,  
RA King A., Laird G.K., Langford C.J., Lawlor S., Leongamornlert D.A.,  
RA Lloyd D.M., Lloyd C., Loveland J.E., Lovell J., Martin S.,  
RA Maehregui-Mohammadi M., McLaren S.J., McMurray A., Milne S.,  
RA Moore M.J.F., Nickerson T., Palmer S.A., Pearce A.V., Peck A.I.,  
RA Pelan S., Phillimore B., Porter K.M., Rice C.M., Searle S.,  
RA Sehra H.K., Showkeen R., Skuce C.D., Smith M., Steward C.A.,  
RA Sycamore N., Tester J., Thomas D.W., Tracey A., Tromans A., Tubby B.,  
RA Wall M., Wallis J.M., West A.P., Whitehead S.L., Willey D.L.,  
RA Wilming L., Wray P.W., Wright M.W., Young L., Coulson A., Durbin R.,  
RA Hubbard T., Sultson J.E., Beck S., Bentley D.R., Rogers J., Ross M.T.,  
RT "The DNA sequence and analysis of human chromosome 13";  
RL Nature 428:522-528(2004).  
RN (4)  
RP IDENTIFICATION, AND TISSUE SPECIFICITY.  
RC TISSUE=Brain, and Brain tumor; PubMed=14557066; DOI=10.1016/S0378-1119(03)00715-7;  
RX Aruga J., Yokota N., Mikoshiba K.;  
RA "Human SLITRK family genes: genomic organization and expression  
RT profiling in normal brain and brain tumor tissue";  
RL Gene 315:87-94(2003).  
CC -!- FUNCTION: Enhances neurite outgrowth (By similarity).  
CC -!- SUBCELLULAR LOCATION: Membrane-bound (Potential).  
CC -!- TISSUE SPECIFICITY: Expressed predominantly in the frontal lobe of  
CC the cerebral cortex of the brain. Also expressed in some  
CC astrocytic brain tumors such as astrocytomas, oligodendrogliomas,  
CC glioblastomas, gangliogliomas and primitive neuroectodermal tumors.  
CC -!- SIMILARITY: Belongs to the SLITRK family.  
CC -!- SIMILARITY: Contains 13 LRR (leucine-rich) repeats.  
CC -----  
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CC between the Swiss Institute of Bioinformatics and the EMBL outstation -  
CC the European Bioinformatics Institute. There are no restrictions on its  
CC use as long as its content is in no way modified and this statement is not  
CC removed.  
CC -----  
DR EMBL; AB067497; BAB67803.1; ALT INIT; mRNA.  
DR EMBL; AY358289; AAQ84656.1; -; mRNA.  
DR EMBL; AL355481; CAC37488.1; -; Genomic DNA.  
DR Ensembl; ENSG00000178235; Homo sapiens.  
DR HGNC; HGNC:20297; SLITRK1.  
DR InterPro; IPR001611; LRR.  
DR InterPro; IPR004083; LRR Cterm.  
DR InterPro; IPR003591; LRR typ.  
DR Pfam; PF00560; LRR\_1; 8.  
DR SMART; PR00019; LEURICHRPT.  
DR SMART; SM00369; LRR typ; 11.  
DR SMART; SM00082; LRRCT; 2.

KW Leucine-rich repeat; Repeat; Signal; Transmembrane.  
FT SIGNAL 1 17  
FT CHAIN 18 696  
FT TRANSMEM 623 643  
FT REPEAT 57 80  
FT REPEAT 81 104  
FT REPEAT 105 128  
FT REPEAT 130 152  
FT REPEAT 153 176  
FT REPEAT 178 200  
FT REPEAT 214 237  
FT REPEAT 374 397  
FT REPEAT 399 421  
FT REPEAT 423 445  
FT REPEAT 446 469  
FT REPEAT 470 493  
FT REPEAT 495 517  
SQ SEQUENCE 696 AA; 77735 MW; E0E9ACEDE0FOACEC CRC64;  
Query Match 56.8%; Score 42; DB 1; Length 696;  
Best Local Similarity 63.6%; Pred. No. 1.2e+02;  
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;  
QY 4 GWLSKINLHN 14  
DB 493 GWLSKINLHN 503  
RESULT 38  
SLITRK\_MOUSE STANDARD; PRT; 696 AA.  
ID SLITRK\_MOUSE Q9CXLO;  
AC Q910C1; Q9CXLO;  
DT 05-JUL-2004 (Rel. 44, Created)  
DT 05-JUL-2004 (Rel. 44, Last sequence update)  
DT 10-MAY-2005 (Rel. 47, Last annotation update)  
DE SLIT and NTRK-like protein 1 precursor.  
GN Name=Slitrlk1; Synonyms=Slitk1;  
OS Mus musculus (Mouse).  
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;  
OC Muridea; Muridae; Murinae; Mus.  
OX NCBI\_TaxID=10090;  
[1]  
RP NUCLEOTIDE SEQUENCE, FUNCTION, TISSUE SPECIFICITY, AND DEVELOPMENTAL  
RP STAGE.  
RX PubMed=14550773; DOI=10.1016/S1044-7431(03)00129-5;  
RA Aruga J.; Mikoshiba K.;  
RT "Identification and characterization of Slitrk, a novel neuronal  
RL transmembrane protein family controlling neurite outgrowth";  
RL Mol. Cell. Neurosci. 24:117-129(2003).  
[2]  
RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA] OF 369-696.  
RC STRAIN=C57BL/6J; TISSUE=Head;  
RA MEDLINE=22354683; PubMed=12466851; DOI=10.1038/nature01286;  
RA Okazaki Y., Furuno M., Kasukawa T., Adachi J., Bono H., Kondo S.,  
RA Nikaido I., Osato N., Saito R., Suzuki H., Yamanaka I., Kiyosawa H.,  
RA Yagi K., Tonaru Y., Hasegawa Y., Nogami A., Schonbach C., Gojobori T.,  
RA Baldarelli R., Hill D.P., Bult C., Hume D.A., Quackenbush J.,  
RA Schraml L.M., Kanapin A., Matsuda H., Batalov S., Beisel K.W.,  
RA Blake J.A., Bradt D., Brusic V., Chothia C., Corbani L.E., Cousins S.,  
RA Dalla E., Dragani T.A., Fletcher C.F., Forrest A., Gough J.,  
RA Gasterland T., Gariboldi M., Gissi C., Godzik A., Gough J.,  
RA Grimmond S., Gustincich S., Hirokawa N., Jackson I.J., Jarvis E.D.,  
RA Kanai A., Kawaji H., Kawasawa Y., Kedzierski R.M., King B.L.,  
RA Kanagaya A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,  
RA Maglott D.R., Maltais L., Marchionni L., McKenzie L., Miki H.,  
RA Nagashima T., Numata K., Okido T., Pavan W.J., Perlea G., Pesole G.,  
RA Petrovsky N., Pillai R., Pontius J.U., Qi D., Ramachandran S.,  
RA Ravasi T., Reed J.C., Reed D.J., Reid C.A., Setou M., Shimada K.,  
RA Sadelain A., Schneider C., Semple C.A., Setou M., Shimada K.,  
RA Sultana R., Takenaka I., Taylor M.S., Teasdale R.D., Tomita M.,  
RA Verardo R., Wagner L., Wahlstedt C., Wang Y., Watanabe Y., Wells C.,  
RA Wilming L.G., Wynshaw-Boris A., Yanagisawa M., Yang I., Yang L.,



RA Yuan Z., Zavolan M., Zhu Y., Zimmer A., Carninci P., Hayatsu N.,  
RA Hirozane-Kishikawa T., Konno H., Nakamura M., Sakazume N., Sato K.,  
RA Shiraki T., Waki K., Kawai J., Aizawa K., Arakawa T., Fukuda S.,  
RA Hara A., Hashizume W., Imotani K., Ishii Y., Itoh M., Kagawa I.,  
RA Miyazaki A., Sakai K., Sasaki D., Shibata K., Shinagawa A.,  
RA Yasunishi A., Yoshino M., Waterston R., Lander E.S., Rogers J.,  
RA Birney E., Hayashizaki Y.;  
RT "Analysis of the mouse transcriptome based on functional annotation of  
RT 60,770 full-length cDNAs";  
RL Nature 420:563-573 (2002).  
CC -1- FUNCTION: Enhances neurite outgrowth.  
CC -1- SUBCELLULAR LOCATION: Membrane-bound (potential).  
CC -1- TISSUE SPECIFICITY: In the adult, significant expression is  
CC detected only in the brain. Broadly expressed in embryonic brain  
CC with highest expression in subventricular zone, subplate, cortical  
CC plate, pyramidal cell layer of hippocampus, thalamus and  
CC hypothalamus where levels are highest in ventromedial hypothalamus  
CC and medial part of periaqueductal gray matter. Also expressed in  
CC mantle layer of spinal cord and in lateral and medial motor  
CC columns.  
CC -1- DEVELOPMENTAL STAGE: In the embryo, expressed from day 10-12 and  
CC continues through later gestational development and into  
CC adulthood.  
CC -1- SIMILARITY: Belongs to the SLITRK family.  
CC -1- SIMILARITY: Contains 13 LRR (leucine-rich) repeats.  
CC This Swiss-Prot entry is copyright. It is produced through a collaboration  
CC between the Swiss Institute of Bioinformatics and the EMBL Outstation -  
CC the European Bioinformatics Institute. There are no restrictions on its  
CC use as long as its content is in no way modified and this statement is not  
CC removed.  
CC -----  
CC EMBL; AB097570; BAC67204.1; -; Genomic\_DNA.  
CC EMBL; AK014285; BAB29244.2; -; mRNA.  
CC HSSP; Q9BZR6; 10ZN.  
CC Ensembl; ENSMUSG0000052049; Mus musculus.  
CC MGI; MGI:2679446; Slitrk1.  
CC GO; GO:0007409; P:axonogenesis; IDA.  
CC InterPro; IPR001611; LRR.  
CC InterPro; IPR000483; LRR\_Cterm.  
CC InterPro; IPR003772; LRR\_Nterm.  
CC InterPro; IPR003591; LRR\_typ.  
CC Pfam; PF00560; LRR\_1; 8.  
CC PRINTS; PR00019; LEURICHRPT.  
CC SMART; SM00369; LRR\_TYP; 2.  
CC SMART; SM00082; LRRCT; 2.  
CC SMART; SM00013; LRRNT; 1.  
CC Leucine-rich repeat; Repeat; Signal; Transmembrane.  
CC SIGNAL 1 17  
FT CHAIN 18 696  
FT TRANSMEM 623 643  
FT REPEAT 57 80  
FT REPEAT 81 104  
FT REPEAT 105 128  
FT REPEAT 130 152  
FT REPEAT 153 176  
FT REPEAT 178 200  
FT REPEAT 214 237  
FT REPEAT 274 297  
FT REPEAT 374 397  
FT REPEAT 399 421  
FT REPEAT 423 445  
FT REPEAT 446 469  
FT REPEAT 470 493  
FT REPEAT 495 517  
SQ SEQUENCE 696 AA; 77817 MW; B3F23AF1A28B9E1B CRC64;  
Query Match 56.8%; Score 42; DB 1; Length 696;  
Best Local Similarity 63.6%; Pred. No. 1.2e+02;  
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;  
QY 4 GMALSKINLHN 14  
Db 493 GVSLSKSLHN 503

RESULT 39  
Q5U516 HUMAN PRELIMINARY; PRT; 696 AA.  
ID Q5U516 HUMAN PRELIMINARY; PRT; 696 AA.  
AC Q5U516; (TREMBlrel. 29, Created)  
DT 01-FEB-2005 (TREMBlrel. 29, Last sequence update)  
DT 01-FEB-2005 (TREMBlrel. 29, Last annotation update)  
DE Slit and trk like 1 protein.  
GN Names=SLITRK1; (Human).  
OS Homo sapiens; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;  
OC Homo.  
OX NCBI\_TaxID=9606;  
RN [1]  
RP NUCLEOTIDE SEQUENCE.  
RC TISSUE=Brain;  
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;  
RA Strausberg R.L., Feingold E.A., Grouse L.H., Dege J.G.,  
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,  
RA Altshul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,  
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,  
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,  
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,  
RA Brownstein M.J., Uddin T.B., Toshiyuki S., Carninci P., Prange C.,  
RA Rana S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,  
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,  
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,  
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,  
RA Fahey J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,  
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,  
RA Blakesley R., Touchman J.W., Green E.D., Dickson M.C.,  
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,  
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,  
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;  
RT "Generation and initial analysis of more than 15,000 full-length human  
RL and mouse cDNA sequences";  
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).  
RN [2]  
RP NUCLEOTIDE SEQUENCE.  
RC TISSUE=Brain;  
RA Director MGC Project;  
RL Submitted (MAY-2003) to the EMBL/GenBank/DBJ databases.  
DR EMBL; BC051738; AAHS1738.1; -; mRNA.  
DR InterPro; IPR001611; LRR.  
DR InterPro; IPR003591; LRR\_Cterm.  
DR Pfam; PF00560; LRR\_1; 8.  
DR PRINTS; PR00019; LEURICHRPT.  
DR SMART; SM00369; LRR\_TYP; 11.  
DR SMART; SM00082; LRRCT; 2.  
KW Leucine-rich repeat; Repeat.  
SQ SEQUENCE 696 AA; 77721 MW; FC82AFCD2E0ADB CRC64;  
Query Match 56.8%; Score 42; DB 2; Length 696;  
Best Local Similarity 63.6%; Pred. No. 1.2e+02;  
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;  
QY 4 GMALSKINLHN 14  
Db 493 GVSLSKSLHN 503

CN Name=DKFP459G0529;  
OS Pongo pygmaeus (Orangutan).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;  
OC Pongo.  
OX NCBI\_TaxID=9600;  
RN [1]  
RP NUCLEOTIDE SEQUENCE.  
RC TISSUE=Cortex;  
RG The German cDNA Consortium;  
RA Bloecker H., Boecher M., Brandt P., Mewes H.W., Weil B., Amid C.,  
RA Osanger A., Fobo G., Han M., Wiemann S.;  
RL Submitted (NOV-2004) to the EMBL/GenBank/DBJ databases.  
DR EMBL; CR859094; CAH91286.1; -; mRNA.  
DR InterPro; IPR001611; LRR.  
DR InterPro; IPR000483; LRR Cterm.  
DR InterPro; IPR003591; LRR\_TYP.  
DR Pfam; PF00560; LRR\_1; 8\_TYP.  
DR PRINTS; PR00019; LEUICHRPT.  
DR SMART; SM00369; LRR\_TYP\_11.  
DR SMART; SM00082; LRRCT; 2.  
KW Hypothetical protein; Leucine-rich repeat; Repeat.  
SQ SEQUENCE 696 AA; 77699 MW; 7AF48D3844D97CBC CRC64;  
  
Query Match 56.8%; Score 42; DB 2; Length 696;  
Best Local Similarity 63.6%; Pred. No. 1.2e+02;  
Matches 7; Conservative 4; Mismatches 0; Indels 0; Gaps 0;  
  
QY 4 GMALSKINLHN 14  
|::|::|::|  
Db 493 GVSLSKLSLHN 503  
  
Search completed: May 13, 2006, 08:13:59  
Job time : 232 secs